रजिस्टर्ड सं०डी—(डीएन)—128/92 REGISTERED NO. D—(DN)—128/92

सत्यमेव जयते

भारत का राजपत्र
The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 3] नई दिल्ली, शनिवार, जनवरी 18, 1992 (पौष 28, 1913)
No. 3] NEW DELHI, SATURDAY, JANUARY 18, 1992 (PAUSA 28, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 18th January 1992

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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office), "NIZAM PALACE" 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 18 जनवरी 1992

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट
तीसरा तल, लोअर परेल (पश्चिम),
बम्बई-400013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय शाखा,
एनेक्स नं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल बाग,
नई दिल्ली-110005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—"पेटेंटोफिक"

पेटेंट कार्यालय शाखा,
61, वालाजाह रोड,
मद्रास-600002

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु, राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप मिनिकाय तथा एमिनिदिवी द्वीप ।

तार पता—"पेटोफिस"

पेटेंट कार्यालय (प्रधान कार्यालय)
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड
कलकत्ता-600002

भारत का अवशेष क्षेत्र ।

तार पता—"पेटेंट्स"

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनायें, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपर्युक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपर्युक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चैक द्वारा की जा सकती है ।

CORRIGENDUM

In the Gazette of India, Part-III, Section-2 of 1990 :—

(1) Dated 20th January, 1990, page-69, Col (1) for accepted Complete Specification No. 165830, read Class 32C, $55F_2$, and Int. Class A61K 37/00, C09K 99/00.

(2) Dated 3-2-90, page 90, for application for Patent No. 1057/Cal/89 read the name of the applicants "E. I. Du Pont De Nemours and Company" instead of "E.I. Due Pont Nemours and Company".

(3) Dated 3-2-90, page 90, for application for Patent No. 1059/Cal/89 read the name of the applicants as "Kramatorsky Industrialny Institut-USSR" Instead of "Kramatorsky Industrialny Institut-User".

(4) Dated 3-2-90 page 91 for application for Patent No. 1069/Cal/89 read the title as "Solid State Control Panel" instead of "Solid Control Panel".

(5) Dated 3-2-90 page 91, for application for Patent No. 3/Cal/90 read the title as "Machine for cutting lateral fines on a heat exchanger element of rectangular cross section" instead of "Machine for cutting lateral fines on a heat exchanger element of rectangular cross section".

(6) Dated 3-2-90, page 91, for application for Patent No. 4/Cal/90 read the name of the applicants as "Nauchno Issledovatelsky Institut Khimikatov Dlya Polimernykh Materialov USSR" instead of "Nauchno Issledovatelsky Institut Khimikatov Diya Polimernykh Materialov USSR".

(7) Dated 3-2-90 page 91, for application for Patent No. 19/Cal/90 read the title as fitted with Impulse counter which operates without using any external Electro-magnet instead of Litted with Impulse counter which operates without using any external Electromagnet.

(8) Dated 3-2-90 page 91, for application for Patent No. 21/Cal/90 read the title as "Process for producting articles from woodpolymer materials instead of Process for producing articles from wood-polymer materials.

(9) Dated 3-2-90 page 96, for accepted Complete Specification No. 165866 (214/Cal/86) in claim read the 2nd line as "a driving gear driven by a motor, for driving a wiper" instead of a "driver gear driven by a motor, for driving a wiper".

(10) Dated 3-2-90 page 98, for accepted Complete Specificatioin No. 165870 (344/Cal/86) read the 1st line of 1st Col. as "An improved transmitter which can be turned within a" instead of "An Improved transmitter which can be tuned within a".

(11) Dated 3-2-90, page 105, for accepted Complete specificatioin No. 165883 delete one of the two extending" printed in the last line of para 3 in claim.

(12) Dated 3-2-90, page 106, for accepted Complete Specification No. 165886 read the last word of 1st line of the claim as "Spun-bonded" instead of "Spun-"

(13) Dated 3-2-90, page 109, for accepted complete specificatlon No. 165892 read the 6th line of the claim as "an orbiting scrol (3) having a second circular end plate" instead of an orbiting scrol (3) having second circular and plate".

(14) Dated 3-2-90, page 110, for accepted complete specification No. 165894 read the opening line of the claim 6 as "A dressing attachment for a grinding wheel of a surface" instead of "A dressing attachment for a grinding wheel of a surface".

(15) Dated 3-2-90, page 111, for accepted complete specification No. 165896 read the Title as "Ventilating apparatus" just below International Classification.

(16) Dated 3-2-90, page 112, for accepted complete specification No. 165900 read the name of applicants for Patent as "J&C ENTERPRISES B.V." instead of "J.C. ENTERPRISES B.V."

(17) In page 113, Col. 2 under the heading COPYRIGHT EXTENDED FOR THE SECOND PERIOD OF FIVE YEARS delete One of the two 149315 printed twice.

CORRIGENDUM

In the Gazette of India, Part-III, Section-2 of 1990 :—

(1) dated 10-2-90 in page 117 in column 1st of 5th line application for Patent No. 32/Cal/90 read the title as "Ceramic composite structures having intrinsically fitted encasement members thereon etc." instead of "Ceramic composite structure having intrinsically fitted enassement members thereon etc.

(2) dated 10-2-90 in page 117, column 1, for application for Patent No. 1132/Del/89 read the title as" "Ostedsynthesis etc" instead of "Ostedthesis etc".

(3) dated 10-2-90 in page 117, column 2, for the application for Patent No. 1133/Del/89, read the name of the applicants as "The principal scientist & Head" instead of "the principal sciences & hear".

(4) dated 10-2-90 in page 117, column 2, for the application for Patent No. 1144/Del/89 delete the portion of the title of the invention "arrangement for the removal of harmful substances generated by the corona discharge" printed just after "charge in 4th line".

(5) dated 10-2-90 in page 118 of 2nd column delete the date 13th December, 1989 printed after the application for Patent No. 1180/Del/89.

(6) dated 10-2-90 in page 119 2nd column of 2nd line read the title as "Process for the production of DMT Intermediate product of specific purity as well as its working up to pure DMT and/or medium pure or pure terephthalic acid" instead of "Process for the specific etc".

CORRIGENDUM

In the Gazette of India, Part III, Section-2 :

1. Dated 17th February, 1990 under the heading accepted compl. specn. of sl. No. 165966 read the Int. Class . B 60 k 17/34 instead of E 60 k 17/34.

2. Dated 24th February, 1990 under the heading accepted compl. specn. of sl. No. 166003 read the Int. Class C 25 c 7/00 instead of B 01 K 1//0.

3. Dated the 10th March, 1990 under the heading accepted compl. specn. of sl. No. 166098 read the Int Class C 10 M 125/22 instead of C, 01 M 125/22.

4. Dated 17th March, 1990 under the heading accepted compl. specn. of sl. No. 166121 read the Int. Class C 23 c 5/00 instead of C 23 b 5/00.

5. Dated 24th March, 1990 under the heading accepted compl. specn. of sl. No. 166188 read the Int. Class B 01 J

Calcutta, the 18th January 1992

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 06th December 1991

908/Cal/91. Partha Ananda Hohan Chatterjee. Bowing Musical Instrument.

909/Cal/91. Cinicinnati Milacron Inc. Method of making vitreous bonded grinding wheels and grinding wheels obtained by the method.

The 09th December 1991

910/Cal/91. De Nora Permelec S.P.A. Novel Jumper switch means and method.

911/Cal/91. Reilly Industries, Inc.. Processes for producing Alpha-Pyridyl carbinols.

912/Cal/91. University of Connecticut. Contraceptive vaccine.

913/Cal/91. Pennwalt Corporation. Oxidation of Disulfides.

[Divisional No. 864/Cal/88 dated 17-10-88].

914/Cal/91. Pennwalt Corporation. Oxidatioln of Thiolsulfonates.

[Divisional No. 864/Cal/99 dated 17-10-88].

The 10th December 1991

915/Cal/91. Sintokogio Ltd. Compressed air blowing apparatus for use in green sand mold molding facility.

916/Cal/91. Environmental Bioscience Corporation. Microbial process for reduction of petroleum viscosity.

917/Cal/91. General Electric Company. Method for obtaining thick, adherent diamond coatings using metal interface screens.

918/Cal/91. Hoechst Celanese Corporation. BF3 catalyzed acylation of aromatic compounds.

The 11th December 1991

919/Cal/91. Himont Incorporated. Piperazing Cyanurate and polymer compositions comprising it.

920/Cal/91. E. I. Du Pont De Nemours and Company. Constant boiling compositions of fluorinated hydrocarbons.

921/Cal/91. E. I. Du Pont De Nemours and Company. Constant boiling compositions of fluorinated hydrocarbons.

The 12th December 1991

922/Cal/91. M Larry Edwards and W Joe Watson. Failsafe uninterruptible lighting system.

923/Cal/91. Awadh Bihari Ravi. "Gachhim" (a machine for cleaning sugar cane of its leaves & roots).

The 13th December 1991

924/Cal/91. Application Art Laboratories Co. Ltd. Magnetic lock device.

925/Cal/91. Application Art Laboratories Co. Ltd. Magne-

The 16th December 1991

926/Cal/91. Conoco Inc. Solvated mesophase pitches.

927/Cal/91. Hoechst Aktiengesellschaft. Water soluble azo compounds preparation thereof and use thereof as dyes.

928/Cal/91. The Lubrizol Corporation. Method for preparing a substiituted carboxylic acid derivative composition.
[Divisional No. 449/Cal/90 dated 28-05-90].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5.

The 30th September 1991

943/Del/91. Patel Mahendra Prahladbhai. "A keyless shaft coupler".

944/Del/91. The procter & Gamble Co., "Liquid detergent containing perborate bleach". [Divisional date 16th June, 1988].

The 1st October 1991

945/Del/91. International Engineering Corporation. "Fuel efficiency deviice".

946/Del/91. Council of Scientific & Industrial Research. "An improved process for the preparation of flocculent variety of yeast".

947/Del/91. Council of Scientific Industrial Research. "An improved process for fermentation of molasses and other fermentable sugar containing substances to ethanol".

948/Del/91. Council of Scientific & Industrial Research "An improved process for the preparation of esters of carboxylic acids".

949/Del/91. Council of Scientific & Industrial Research. "An improved process for the conversion of menthone into 1-menthol".

950/Del/91. Reichhold Chemicals, Inc. "Latex gloves with improved donnability".

951/Del/91. Edwin Lowe Ltd. "Improvements in and relating to conveyor idlers and rollers and bearing housing assemblies for them".
(Convention date 4th October, 90) (U.K.).

952/Del/91. Imperial Chemical Industries PLC. "Fire extinguishing compositions". (Convention date 15th October, 90) (U.K.).

953/Del/91. The Lubrizol Corporation. "Antioxidant products".

954/Del/91. Russell D. IDE. "Sealed roller assembly".

955/Del/91. The Gillette Co. "Ascillating shaver".

956/Del/91. Motorola Inc. "Linear transmitter training method and apparatus".

The 3rd October 1991

957/Del/91. Artificial Limbs Manufacturing Corp. "A wheel chair for use by a patient".

958/Del/91. Purolator India Ltd. "A filter testing machine"

959/Del/91. Archna Kapoor & Other. "A method of preparing a vaccine".

960/Del/91. Purolator India Ltd. "A curing oven"

961/Del/91. Rothmans International Tobacco Ltd. "Smoking article".

(Convention date 26th October, 90) (U.K.).

962/Del/91. Emhart Glass Machinery Investments Inc. "Push-out device for a glassware forming machine".

The 4th October 1991

963/Del/91. Jiwan Singh Bisht. "Natural power generator"

964/Del/91. R & D Centre of Porritte & Spencer (ASIA) Ltd, "Patent for fixing a continuous coil of spirals for joining the two ends of the paper making dryer fabric to make it run in endless form on the paper machine".

965/Del/91. The Protecter & Gamble Co. "Detergent Compositions".

(Convention date 6th October, 90) (U.K.).

966/Del/91. Digital Equipment Corporation. "Protection ring extension for computer with virtual machine mode".

967/Del/91. Digital Equipment Corporation. "Improving computer performance by simulated cache associattiviity".

The 5th October 1991

968/Del/91. Sunandan Kumar. "Portable garbage incinerators".

969/Del/91. UOP. "Two stop process for selectively isomerizing olefins in gas streams".

970/Del/91. Thai Merry Co., Ltd. "Cigarette lighter".

971/Del/91. Motorola Inc. "Dynamic Rf communication resource access by roving mobile units".

The 8th October 1991

972/Del/91. Uniroyal Chemical Co., Inc. "An degradation-resistant composition". [Divisional date 23rd August, 1988].

973/Del/91. L' Air Liquide, Societe Anonyme Pour L' Etude ET L' Exploitation Des Procedes Georges Claude. "Process and installation for distilling air, and application in the supply of gas to a steelworks".

The 9th October 1991

974/Del/91. Hillol Kanti Pal. "Anterior spinal fixation".

975/Del/91. The Protecter & Gamble Co. "Process for preparing high density detergent compositions containing particulate pH sensitive surfactant".

976/Del/91. Ohannes Meguerditchain. "Drive system".

977/Del/91. The British Petroleum Co. p.l.c. "Process for removing iodide compounds from carboxylic acids and/or anhydrides".

(Convention date 19th October, 90) (U.K.).

The 10th October 1991

978/Del/91. Council of Scientific & Industrial Research "A stereo-selective process for the preparation of novel 7-EPI-deacetyl coleonol". [Divisional date 10th October, 90].

979/Del/91. Council of Scientific & Industrial Research. "A stereo-selective process for the preparation of 6, 7-epoxy coleonol (6, 7-Epoxy-6, 7-deoxyforskolin". [Divisional date 10th October, 91].

980/Del/91. Council of Scientific & Industrial Research. "A stereo-selective process for the preparation of novel 1-EPI-7-deacetyl colenol". [Divisional date 10th October, 91].

981/Del/91. Council of Scientific & Industrial Research. "A stereo-selective process for the preparation of novel 1-EPI-benzoyl coleonol". [Divisional date 10th October, 91].

982/Del/91. Council of Scientific & Industrial Research. "A stereo-selective process for the preparation of novel 7-deacetyl-7-EPI-trifluoroacetyl-6-acetyl coneonol". [Divisional date 10th October, 91].

983/Del/91. Harish Chhabra. "Improvements in or relating to room cooling device (room cooler) made of plastic and metal".

984/Del/91. Sddm Inc. "Apparatus and method for improving density uniformity of a fluidized bed medium, and/or for improving material fluidized bed sorting".

The 10th October 1991

985/Del/91. The Proter & Gamble Co. "Cleaning compositions". (Convention date 12th October, 90, 17th November, 90 & 7th September, 91) (U.K.).

986/Del/91. Harry Winston, S.A. "A method of producing a marking on a diamond".

987/Del/91. Karl Fisher Industrieanlagen GMBH. "Method and apparatus for producing spun-bonded fabrics".

The 11th October 1991

988/Del/91. Courtauds PLC. "Treatment of fibre". (Convention date 12th October, 90) (U.K.).

989/Del/91. Gould Inc. "Method and apparatus for applying surface treatment to metal foil".

990/Del/91. Gould Inc. "Apparatus for electrodepositing metal".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 28th October 1991

813/Mas/91. Hoechst Aktiengesellschaft. Process for the preparation of trioxane.

The 29th October 1991

814/Mas/91. Sandoz Ltd. Novel compositions.

The 30th October 1991

815/Mas/91. SMS Schloemann-Siemag Aktiengesellschaft. Slab upsetting press for hot-rolled wide strip rolling mills.

816/Mas/91. MS Schloemann-Siemag Aktiengesellschaft. Arrangement for clampng and balancing pressing tool carriers and crank housing of an upsetting press.

817/Mas/91. SMS Shloemann-Siemag Aktiengesellschaft Upsetting press for reducing the width of slabs in hot-rolled wide strip breaking-down trains.

818/Mas/91. Hammock Manufacturing & Export (P) Ltd. A Hammock cum float.

819/Mas/91. Schubert & Saizer Maschinenfabriik Aktiengesellschaft. A method and device for joining the thread in a spinning device using a pneumatic torsion means. (Division to Patent Application No. 217/Mas/88).

The 31st October 1991

820/Mas/91. Mohammed Ayub Khan. Canary Disposable seal.

821/Mas/91. Ravi Sailesh Bandaru. An on-line computer control system.

822/Mas/91. Robert Tapper. Iontophoretic treatment system.

823/Mas/91. Hunter Douglas International N. V. Apparatus for securing two parts of a fold in pleated material. (Division of Patent Application No. 412/Mas/88).

The 4th November 1991

824/Mas/91. Sadhu Padmanabha Yogi and Swamy Mahesananda. New design and method of constructing the "BODY" of a compound microscope.

825/Mas/91. Snamprogetti S p A. Integrated process for producing iso-butene and alkyl tert-butyl ethers.

The 6th November 1991

826/Mas/91. M. J. Joseph alias appachan. Coconut squeezer.

827/Mas/91. Professor Kandrika Sambamurthy. Reduction of fermentation time in the maxiimum productiion of neomycin by application of low voltage alternating current to the production medium of streptomyces marinensis.

828/Mas/91. Lucas Industries Public Limited Company. Internal shoe drum brake. (November 8, 1990; United Kingdom).

829/Mas/91. Anthony Asher and Ian Austin Moultrie. Home financing management system.

830/Mas/91. Urea Casale S.A. Process and high-yield reactors for the synthesis of urea.

831/Mas/91. Foseco International Limited. Sleeves containing filters for use in moulds for metal casting. (January 30, 1988; United Kingdom). (Divisional to Patent Application No. 29/Mas/89).

832/Mas/91. Institut Francais Du Petrole. An apparatus for filling a receptacle with a divided solid product.

The 7th November 1991

833/Mas/91. Arumugam Vaithianathan. Improvements in or relating to the self-generator sets.

834/Mas/91. British Gas PLC. Measuring probe, (November 29, 1990; United Kingdom).

835/Mas/91. F L Smidth & Co. Double separator for sorting particulate material.

836/Mas/91. Arumadura Nandasena Silva Kulasinghe. Combustion of liquid fuels. (November 23, 1990; Sri Lanka).

The 8th November 1991

837/Mas/91. Sadhu Padmanabha Yogi (alias C. P. Rao) and Swamy Mahesanada. "Easy to assemble kit for constructing the 'Body' of a compound microscope.

838/Mas/91. Union Carbide Chemicals and Plastics Inc. Improved Hydroformylation process.

839/Mas/91. Union Carbide Chemicals and Plastics Company Inc. Improved mixed aldehyde product separation.

840/Mas/91. Heinrich Kopp GMBH & Co. Device for rapid attachment of serially mounted electrical apparatus.

841/Mas/91. Stork Ketels B V. Spray degassed.

The 11th November 1991

842/Mas/91. Ramamurthy Srinivasan. A dry insulated high voltage transformer and reactor coil, a method and an apparatus for manufacturing the same.

843/Mas/91. Rosemount Inc. Pressure Transmitter with stress isolation depression.

The 12th November 1991

844/Mas/91. Bracco Industria Chimica S. p. A. 1, 3-Bis-[3-(mono-or poly-hydroxy) acylamino-5-(mono-or poly-hydroxy - alkyl) aminocarbonyl-2, 4, 6-triiodo-benzoyl-amino] -hydroxy-or hydroxy-alkyl-propanes, their methods of preparation and X-ray contrast mediia containing them.

845/Mas/91. Asca Brown Boveri Ltd. Inlet casing for steam turbine.

846/Mas/91. Merlin Gerin. Protective case for an industrial controller.

The 14th November 1991

847/Mas/91. Philip Morris Products Inc. Putrescine N-methyltransferase, recombinant DNA molecules encoding putrescine N-methyliransferase, and transgenic tobacco plants with altered nicotine content.

The 15th November 1991

848/Mas/91. M. J. Joseph Alias Appachan. Easy sheet.

849/Mas/91. Colivier Pty. Ltd., Spray means for a toilet pedestal. (November 16, 1990; Australia).

850/Mas/91. Kurimoto, Ltd., Multi-layer welding process with high hard metal.

ALTERATION OF DATE UNDER SECTION 16

169950
(699/Del/88) Ante dated to November 26, 1985.

COMPLETE SPECIFICATION ACCEPTED

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्द्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है (अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग-पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हो, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार, जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है

Ind. Cl. : 52A. 169941

Int. Cl.[4] : D21B 1/32.

SHREDDING MACHINE FOR DESTROYING PAPERS SECRET DOCUMENTS AND THE LIKE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SCIENTIES ACT (ACT XXI OF 1860).

Inventors : SUSHIL KUMAR BASU, HARIJAN BAGCHI, ABDUL RASHID ABDUL KARIM SHAIKH & ABDUL NISAR ABDUL SHAKOOR SHAIKH.

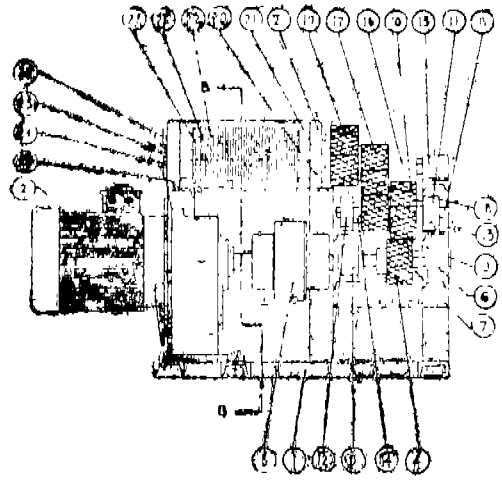
Application for Patent No. 290/DEL/87 filed on 3rd April 1987.

Complete Specification left on 10th March, 1988.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch, New Delhi-5.

2 Claims

A shredding machine for destroying papers and secret documents and the like which comprises main frome (1) having two sides plates (28, 29) which support two cutter assemblies (22, 23) each cutter assembly capable of rotation in opposite direction, each of the said cutter assemblies consisting of an array of circular grooved cutters (26), separated by spacers (27), the cutters and spacers being mounted on a shaft in such a manner that the grooves of the circular cutters form an uniform helix over the entie length of the array of cutters, the two cutters assemblies (22, 23) being placed in such a manner that the cutters of each assembly intermeshes with each other, fingers (31) being fixed to the said main frame (1) adjacent to the spacers (27), the shafts of the said cutters assemblies being supported by bearings (20, 25 & 21, 24), the said shafts being connected to a gear train (4, 10, 9, 17, 18, 19) mounted on main frame (1), the said gear train being connected through a flexible coupling (3) to a prime mover (2).



(Provisional Specification—4 pages Drgs. 2 sheets)

(Compl. specn.—9 pages)

IND. CL. : 32B. 169942

INT. CL.[4] : C07C 15/00.

A SOLVENT EXTRACTION/STEAM DISTILLATION PROCESS FOR THE SEPARATION AND RECOVERY OF HYDROCARBONS FROM A MIXED FEEDSTOCK.

Applicant : UNION CARBIDE CORPORAT8ION, MANUFACTURERS, A CORPORATION ORGANISED AND EXITING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA WITH OFFICES AT 39 OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, U.S.A.

Inventors : PAULINO FORTE & JOSE ANTONIO VIDUEIRA.

Application for Patent No. 443/Del/87 filed on 21st May, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A solvent extraction/steam distillation process for the separation and recovery of aromatic hydrocarbons of the kind such as herein described from a mixed feedstock of the kind such as herein described, comprising contacting said feedstock with a lean solvent of the kind such as herein described allowing said solvent to percolate down a distillation column so as to progressively dissolve aromatic hydrocarbons therefrom to form aromatic hydrocarbons enriched solvent treating said solvent with steam and thereafter recovering said aromatic hydrocarbons in a known manner characterised by introducing said steam from a steam ejector at a pressure in the range of rom 10 to 200 psig and at a temperature in the range of from 150°C to 200°C into a first heat exchanger where said steam exchanges heat with a cooler lean solvent coming from the bottom of said distillation column thereby condensing said steam, and heating said lean solvent which is returned to the bottom of said distillation column, passing a part of said condensed steam to a second heat exchanger where said steam exchanges heat with said heated lean solvent coming from the bottom of said distillation column thereby further cooling said lean solvent and vapourizing the steam which is returned to said steam ejector.

Compl. specn. 19 pages. Drg. 1 sheet.

IND. CL. : 129 N. 169943

INT. CL.[4] : H05K 3/34.

A CARRIER FOR A PLURALITY OF ELECTRICAL OR ELECTRONIC COMPONENTS.

Applicant : SUN INDUSTRIAL COATINGS PRIVATE LIMITED, A SINGAPORE COMPANY, OF NO. 8 THIRD LOK YANG ROAD, JURONG, SINGAPORE 2262.

Inventor : AH TEE SIM.

Application for Patent No. 583/Del/97 filed on 10th July 1987.

Convention date July 11, 1986/8616938/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 claims

A carrier (16) for a plurality of electrical or electronic components, comprising a frame in which is provided a plurality of parallel tracks (T) for receiving the components, the tracks (T) being formed by a plurality of parallel, laterally spaced, axially extending upper suport members (1) attached to said frome each of which defines a pair of parallel axially extending upper rails and by a plurality of parallel, laterally spaced, axially extendwing lower support members (8) also attached to said frame and aligned vertically with the upper support members (1), each of the lower support members (8) defining a pair of parallel, axially extending lower rails whereby each track (T) is defined by four rails and is situated between two adjacent upper support members (1) and their aligned lower support members (8), characterised in that each upper support member (1) is of substantially "U"-section with its legs (3) directed downwardly, and each lower support member (8) is of substantially "U"-section and each lower support member (8) is of substantially "U"-section with its legs (10) projecting downwardly and beyond the ends of the legs (8) of its aligned upper support member (1) but being spaced inwardly thereof, the lower support member (8) having end regions (11)

of its legs directed outwardly so as to provide portions (12) which face generally upwardly.

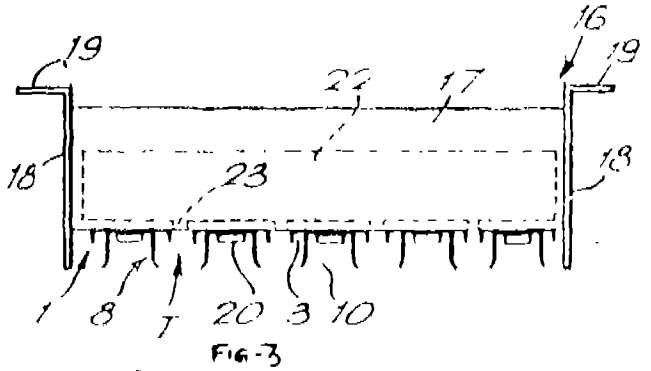


FIG-3

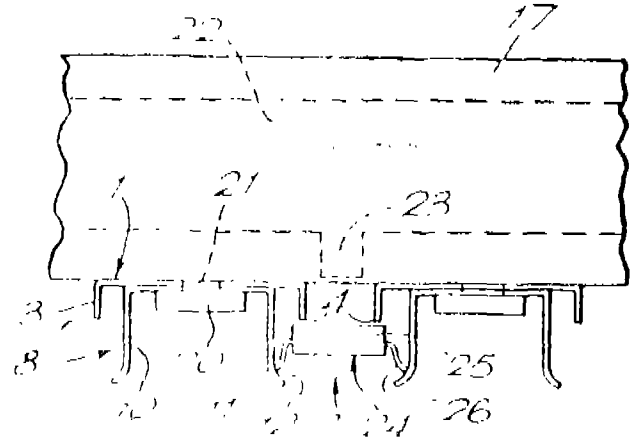


FIG-4

(Compl. specn. 10 pages Drgs. 3 sheets)

IND CL. : 140 169944
(a—1)

INT. CL.[4] : C10M 125/20 & 125/24.

A PROCESS FOR PREPARING A PHOSPHOROUS AND/OR NITROGEN—CONTAINING DERIVATIVES OF SULFUR—CONTAINING COMPOUNDS FOR USE AS ADDITIVE FOR LUBRICANTS, FUELS AND FUNCTIONAL FLUIDS

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventor : JOSEPH WILLIAM PIALET, CURTIS RICHARD SCHARF AND STEPHEN AUGUSTINE DI BIASE.

Application for Patent No. 725/DEL 87 filed on 19 August 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

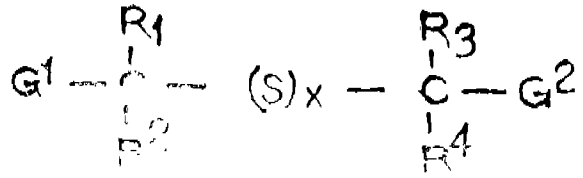
Claims 19

A process for preparing a phosphorus and/or nitrogen-containing derivative of sulfur—containing compunds for use as additives for lubricants, fuels and functional fluids, said process comprsing reacting

(A) at least one sulfur composition of

(A-1) compounds characterized by the structural formula IV of the drawings wherein

IV



R^1, R^2, R^3 and R^4 are each independently H or hydrocarbyl groups;

R^1 and/or R^3 may be G^1 or G^2;

R^1 and R^2 and/or R^3 and R^4 together may be alkylene groups containing about 4 to about 7 carbon atoms;

G^1 and G^2 are each independently C(X)R, COOR, C=N, R^5—C=NR^6, $CON(R)_2$, or NO_2, and G^1 is CH_2 OH, wherein X is O or S, each of R and R^5 are independently H or a hydrocarbyl group, R^6 is H or a hydrocarbyl group;

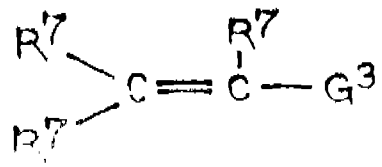
When both G^1 and G^2 are R^5 C=NR^6, the two R^6 groups together are a hydrocarbylene group linking the two nitrogen atoms;

When G^1 is CH_2 OH and G^2 is COOR, a lactone is formed by intramolecular combination of G^1 and G^2;

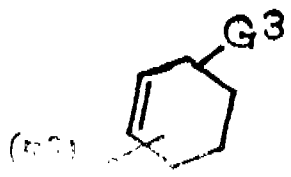
and X is an integer from 1 to 8; and

(A-2) a substance which is the reaction product of sulfur and /or sulfur halides with compounds represented by the structural formulae V and VI of the drawings wherein

V



VI



each of R7 is independently H or hydrocarbyl group; R^8 is H, a hydrocabyl group, or a hydrocarbyloxy group ;

G^3 is C(X)R, C=H, COOR, $CON(R)_2$, NO_2 or R^5 C=NR^6 wherein X,

R, R^5 and R^6 are as defined above; and

Y is an integer from zero to 5; with

(B) a di-or trihydrocarbyl phosphite, at least one amine compound containing at least one NH or NH_2 group, or a combination of said phosphite and amine, provided, however, when G^1 and G^2 in (A-1) are—C (X)R, (B) is a di-or trihydrocarbyl phosphite or a mixture of said 'phosphite and an amine compound containing at least one NH or NH_2 group.

(Comp. Specn.—132 Pages Drawing Sheets 5)

IND CL. : 83 A. 1. 169945

Int. Cl.[4] : A 23L 1/00.

"PROCESS FOR CONVERTING VEGETABLE SUBSTANCES INTO PRODUCTS EDIBLE FOR HUMANS OR FOR ALTERING THE FLAVOUR THEREOF".

Applicant : HEINZ SCHAAF NAHRUGSMITTEL-EXTRUSIONSTECHNIK, A GERMAN TRADING COMPANY, OF QUELLENWEG 14 + 19A, 6277 BAD CAMBERG-OBERSELTERS, WEST GERMANY.

Inventor : HEINZ-JOSEF SCHAAF.

Application for Patent No. 927/Del/87 filed on 21st October 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A process for converting vegetable substances such as herein described into products edible for humans or for altering the flavour thereof which comprises introducing said substances into a high speed extruder in the absence of air, raising the temperature thereof in less than 5 seconds from 20°C to a temperature of from 150°C to 500°C and extruding the product.

Compl. specn. 4 pages. Drg. Nil.

IND. CL. 52 A & 128 K. 169946

Int. Cl.[4] : A 61 B 17/32.

A SURGICAL KNIFE.

Applicant : VIVEK MULL CHANDRA AGRO PVT. LTD., MULL BUILDING, ASHOK MARG, LUCKNOW (U.P.) INDIA, AN INDIAN NATIONAL AND SHREE KRISHNAKESHAV LABORATORIES LTD., AN INDIAN COMPANY OF AMRAIWADI ROAD, AHMEDABAD-380008, GUJARAT, INDIA.

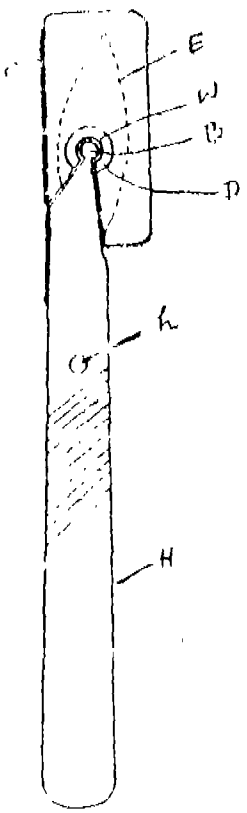
Inventor : VIVEK MULL.

Application for Patent No. 944/Del/87 filed on 28th October 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent office Branch New Delhi-5.

2 Claims

A surgical knife comprising a handle (H) made of a non-metallic material which is split length wise at its upper end, a knife blade (E) secured within the split portion in the handle H, characterised in that said blade E has a hole adjacent its lower and hidden end, the material of one side of the split portion of the handle entering into said hole to secure the blade firmly in the said handle (H), when heat pressed, and a sheath or cover (C) having two side walls (C_1) & C_2) joined together towards the edge side (E_1) of the blade (E), said sheath or cover (C) being provided for protecting the said blade (E), said sheath (C) being breakably attached to the upper end of said handle (H), such that said sheath or cover (C) is detachable for exposing the blade (E) on use.



(Compl. specn. 7 pages Drg. 1 sheet)

IND. CL. : 32 A_2. 169947

Int. Cl.[4] : C09B 62/034.

AN IMPROVED PROCESS FOR THE PREPARATION OF COPPER PHTHALOCYANIN BLUE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES (ACT XXI OF 1860).

Inventors : TURAGA PRABHAKARAN PRASAD, KODAVANTI VENKATA KASIPATI RAO, YERRAMALLI RAMACHNDRA RAO & KODAVANTI MADHUSUDANA RAO.

Application for Patent No. 987/Del/87 filed on 7 Nov. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

An improved process for the preparation of copper phthalocyanin blue which comprises grinding and mixing phthalimide urea, a copper salt and a salt of molybdenumas catalyst in a reactor vessel characterised in that, evacuating and gradually heating the said reactor vessel to a temperature of 135—150°C, raising the temperature quickly to around 350°C, maintaining the temperature at around 350°C for about two hours, again evacuating the reactor vessel for one hour, shutting down the vacuum, injecting cool water to the reactor vessel, pulverizing the mixture, filtering and washing the pulverised product, drying and powdering the resultant product.

(Compl. specn. 7 pages).

IND. CL. : 51 D. 169948

Int. Cl.[4] : B 65 D 83/10.

A RAZOR PACK.

Applicant : WARNER-LAMBERT COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE PORATION ORGANISED AND EXISTING UNDER THE A PLACE OF BUSINESS AT 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, UNITED STATES OF AMERICA.

Inventor : DONALD THORPE.

Application for Patent No. 1095/Del/87 filed on 17 Dec. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

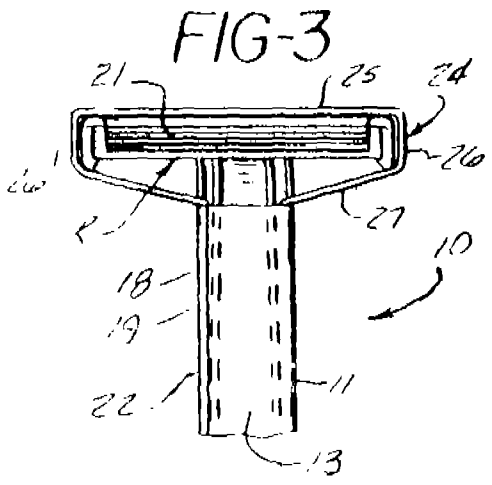
7 Claims

A razor pack (10) to hold a plurality of razors of substantially identical configurations each with a razor head and a handle extending downward from said head comprising in combination :

(a) a card having essentially parallel side surfaces with a bottom edge and a top edge, said top edge of each side surfaces forming a raised stop portion near the rear end of said side surfaces, and said plurality of razor handles (22) extending between said side surfaces and said plurality of razor heads extending transversely above said side surface;

(b) a sleeve (24) of thermoplastic material extending frontward from and butting against said stop portion, said sleeve having a top (25), sides (26) extending essentially parallely downward from said top and essentially parallel to said card side surfaces, and a bottom (27) portion extending inward from each side extending toward said razor handles, said bottom having downwardly extending flanges (28) at each inward edge attached to said card side surfaces, said sleeve shaped to surround said razor head top, side and at least a portion of said botom.

FIG-3



(Compl. specn. 11 pages Drg. 1 sheet)

IND. CL. : 134A. 169949

Int. Cl.[4] : B 60R 27/00.

DEVICE FOR CUTTING OFF LIGHT AND HEAT THROUGH AUTOMOBILE VIEW SCREEN VEHICLE.

Applicant & Inventor : PRABHAT KUMAR, AN INDIAN CITIZEN OF C5-16, SAFDARJANG DEVELOPMENT AREA, NEW DELHI-110016, INDIA.

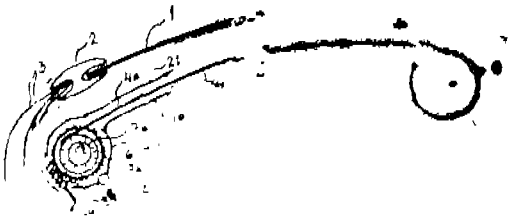
Application for Patent No. 185/Del/88 filed on 10th March, 1988.

Complete Specification left on 12th June, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

A ray controlling device for vehicle comprising atleast a flexural screen, ply means, and a frame; atleast part of said flexural screen material to reflect, filter, block ray; said flexural screen being pliable, spreadable, retractable; and the screen being in communication with said ply means; said frame being attachable to vehicle; and to support said screen; said spreadable flexural screen when spread non transverse to vehicle screen, surface, parts thereof; said screen ply relative to and spreads over said vehicle screen, surface parts thereof to control ray; and retract to allow ray transcend.



(Provisional Specification 2 pages).

(Compl. specn. 10 pages Drgs. 2 sheets)

IND. CL. : 98 I. 169950

Int. Cl.[4] : B32B 17/06 & F 24J 2/10.

A LAMINATED ARTICLE FOR REFLECTANCE OF SOLAR ENERGY.

Applicant : PPG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, U.S.A. OF ONE PPG PLACE, PITTSBURGH 22, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : RUSSELL CALDWELL CRISS.

Application for Patent No. 699/Del/88 filed on 12 Aug. 1988.

Divisional to Application No. 993/Del/85 filed on 26 Nov. 1985.

Ante-dated to 26 Nov. 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A laminated article for the reflectance of solar energy which comprises :

a transparent glass substrate;

a transparent film of a metal compound which exhibits color by absorption and interference effects on a surface of said glass substracte; and

a highly reflective tranparent film of a metal of the kind described herein on said transparent film of metal compound.

(Compl. specn. 11 pages).

CL. : 69-Q. 169951

Int. Cl. : H01H 71/00.

CIRCUIT INTERRUPTER APPARATUS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventors : (1) JOSEPH JACOB MATSKO, (2) JOHN ANTHONY WAFER.

Application No. 65/Cal/1988 filed January 28, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A circuit interrupter apparatus, comprising :

interrupting means disposed in a normally conducting electrical circuit and effective for interrupting current flow through said electrical circuit upon reception of a trip signal; conditioning means coupled to said electrical circuit for conditioning a current value proportionate to such current flow, said conditioning means producing a conditioned signal representative of the magnitude of said current value; operating means effective for deriving at least one operating characteristic from said conditioned signal, said operating means further being effective for comparing said at least one operating characteristic to a corresponding at least one preselected tripping parameter as represented in a trip curve and generating said trip signal when said at least one operating characteristic is at least equal to said corresponding at least one tripping parameter; selecting means coupled to said operating means for selectively adjusting said at least one tripping parameter, and wherein said selecting means including at least one controller positioned along at least one portion of said trip curve which is associated with said at least one preselected tripping parameter; display means selectively connectable to said operating means and disposable in proximate relation to said trip curve for selectively displaying said at least one operating characteristic, said display means further including indicating means for identifying the unit of measurement of said operating characteristic that has been displayed; and, an indicating element associated with each of said at least one controller having a unit of measure disposed thereon and effective such that the setting of said at least one preselected tripping parameter is observable thereby.

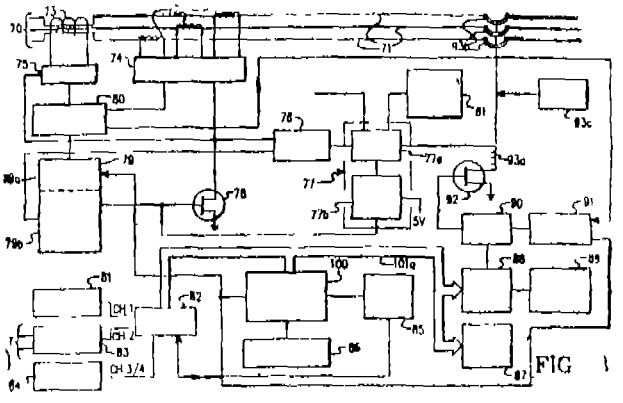


FIG 1

Compl. specn. 78 pages. Drgs. 27 sheets.

CL. : 63-I. 169952

Int. Cl. : G01R 31/00.

A REMOTELY CONTROLLED SYSTEM FOR INSPECTING AN ELECTRIC TURBO GENERATOR.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventors : (1) HAMEDO ALI JAAFAR, (2) KARL ANTON KATZOR, (3) WILBERT BERNARD RETHAGE, (4) GERARD ANTHONY POMPA, (5) GEORGE FRANKLIN BAILEY, (6) PAUL GUENTHER.

Application No. 70/Cal/1988 filed January 28, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A remotely controlled system for inspecting an electric turbo generator (2) especially in airgap regions between stator and rotor of the turbo generator, and system comprising :

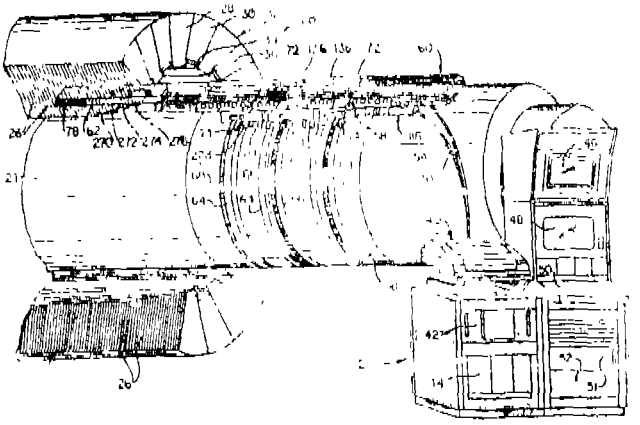
first apparatus (199) insertable and traversable in said airgap regions for inspecting and providing information pertaining to the tightness of the stator (32) coil wedges (90) of the generator (20);

second apparatus (143) for inspecting and providing information pertaining to the electrical integrity of the stator (32) lamination insulation;

visual apparatus (194) insertable and traversable in said airgap regions for visually and remotely inspecting interior surfaces of said stator (32) and rotor (24);

drive means (62) for delivering each said apparatus to to a selected site of inspection, and for retrieving said apparatus therefrom; and

means (22) for causing each apparatus to conduct an inspection at each said selected inspection site.



Compl. specn. 43 pages. Drgs. 16 sheets.

CL. : 102-C$_4$ 169953

Int. Cl. : G01F 1/06.

FLOW METER.

Applicant : MOSKOVSKY INSTITUT INZHENEROV ZHELEZNODOROZHNOGO TRANSPORTA, ULITSA OBRAZTSOVA, 15, MOSCOW, USSR.

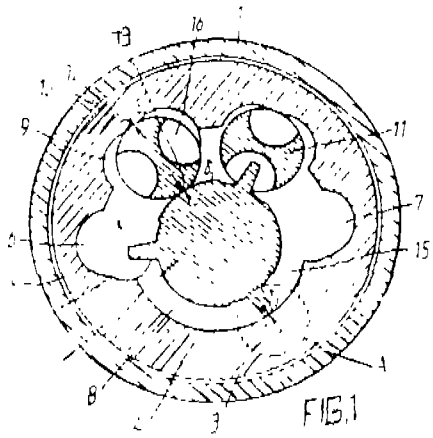
Inventors : (1) VIKTOR VIKTOROVICH DOMOGATSKY, (2) BORIS MIKHAILOVICH LEVIN, (3) VALENTINA FEDOROVNA BOIKO, (4) NATALYA DMITRIEVNA BATAKSHOVA, (5) ALEXEI DMITRIEVICH BUKHONOV, (6) ALEXANDR IVANOVICH KRAVTSOV, (7) MARK SEMENOVICH GUREVICH, (8) VLADIMIR MATVEEVICH FILIMONOV, (9) MIKHAIL IVANOVICH SMIRNOV, (10) VLADIMIR PETROVICH SEREDKIN.

Application No. 71/Cal/1988 filed January 28, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A flow meter comprising a rotor having vanes, mounted with sealing clearances in a casing and defining a working space in the casing which has ports for fluid admission and discharge and recesses for accommodation of identical rollers having their peripheries defining with the surface of the recesses and with the rotor surface forming sealing clearances said sealing clearances dividing the working space into a fluid admission chamber and a fluid discharge chamber, the rollers having grooves for the rotor vanes to pass therethrough, and the rotor being mounted for rotation in synchronism with the rollers under the action of fluid energy, characterized in that each recess has pockets, a sealing land being defined betweeen the pockets, and wherein the value of any sealing clearance ranges from 0.0005 to 0.002 times the diameter of the roller.



Compl. specn. 10 pages. Drg. 1 sheet.

CL. : 32-E, D. 169954

Int. Cl. : C08G 69/00, 69/04.

RIGID COMPOSITE.

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, WILMINGTON, DELAWARE, U.S.A.

Inventors : (1) LOUIS HENRY MINER, (2) GEORGE ELIAS ZAHR.

Application No. 82/Cal/1988 filed February 01, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A rigid composite comprising a polyester, phenolic, or polyamide resin matrix reinforced with continuous para-oriented aromatic polyamiide (P-aramid) filments coated with from 0.2 to 5 percent, by weight, or a solid adhesion modifier, such as herein described said coated filaments when embedded in the matrix and tes'ed in accordance with MIL-STD-662D exhibiting a ballistics limit from 1000 to 4000 feet per second and a composite areal density from 0.4 to 6 pounds per square foot, filaments comprise from 50 to 90 percent, by weight, of the composite.

Compl. specn. 16 pages. Drgs. 2 sheets

CL. : 190-B. 169955

Int. Cl. : F01D 5/00.

BLADE MOUNTING ARRANGEMENT FOR STEAM TURBINES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PNNSYLVANIA 15222, U. S. A.

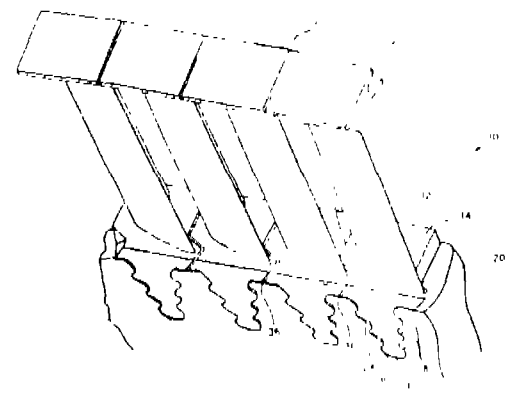
Inventors : (1) ALBERT JOSEPH PARTINGTON, (2) ANTHONY HODGSON.

Application No. 104/Cal/1988 filed February 05, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A blade mounting arrangement for a steam turbine (10) having a rotor (20) with a plurality of generally axially extending grooves (18) disposed therearound, a section of rotor between adjacent grooves (18) defining steeples (36), a plurality of blades (12), each blade (12) having a root (16) in registration with one of the grooves (18) and a platform (14) juxtaposed the steeples (36) that are adjacent the groove (18) with which the root (16) registers, and means (30) for locking each root (16) in the groove with which it registers to prevent axial movement of the blade (12), characterized in that wedge means (32) are disposed between each platform (14) and the steeples (36) with which the platform (14) is juxtaposed, there being an interference fit between the wedge means (32) and the platform (14) so that the wdgs mans (32) urges the root (16) radially outward against edges of the groove (18) for preventing the root (16) from rocking in the groove (18).



Compl. specn. 11 pages. Drgs. 2 sheets.

CL. : 127-I. 169956

Int. Cl. : F16D 31/00.

COUPLING FOR PRESSURE OR VACUUM FLUID SYSTEM.

Applicant : PROCESS SCIENTIFIC INNOVATIONS LIMITED, BOWBURN, DURHAM DH6 5AD, UNITED KINGDOM.

Inventors : (1) GEORGE SHERWOOD HUNTER, (2) MICHAEL JOHN HAWKER.

Application No. 128/Cal/1988 filed February 12, 1988.

Convention date February 13, 1987 . No. 8703313, (U.K.).

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

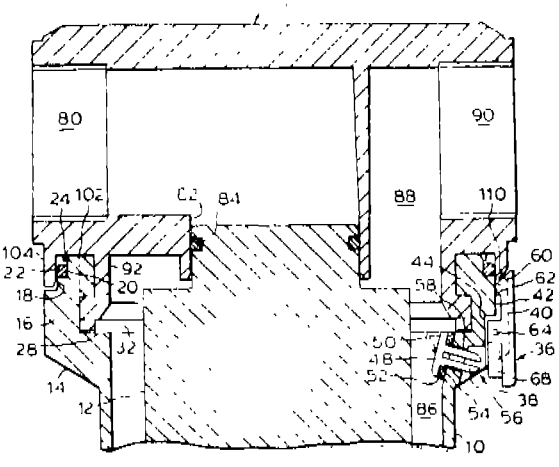
10 Claims

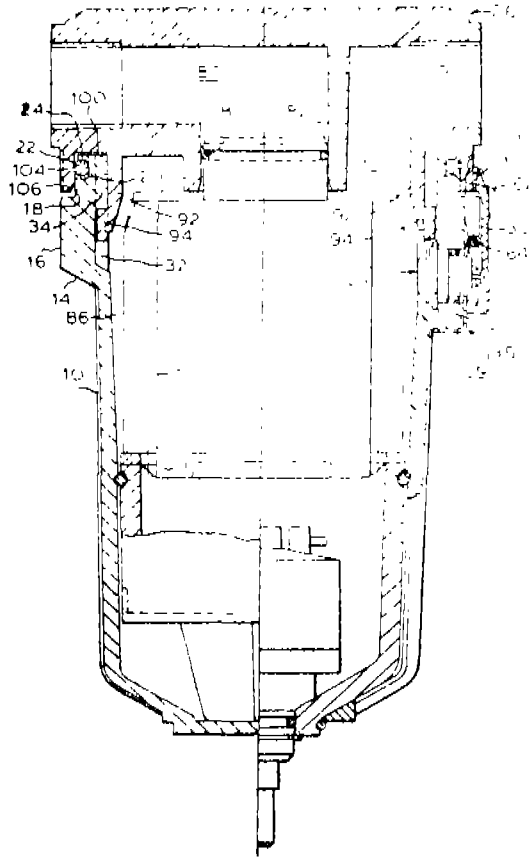
A coupling for a pressure or vacuum fluid system comprising :

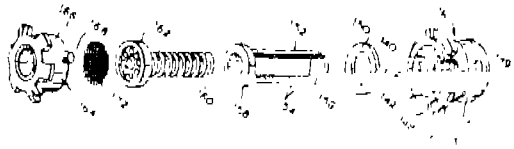
first and second members, such as filter bowl (10) and filter housing head (26) respectively, that connect together by relative rotation to engage bayonet coupling means (30, 32, 34, 35, 94, 96, 98, 100) thereof, have internal spaces (86, 88) that are evacuated or contain gas under pressure and when connected together communicate said internal spaces, said members when connected together having outer walls overlapping with an intervening seal therebetween;

a pressure relief value (38) in one of the members for communicating the surroundings with the internal space;

lever means (36) that engages at an angular position of said members where the bayonet coupling means interengages to prevent relative rotation of said members and that at other angular positions of said members is prevented from engagement, the lever means being decoupled from the valve when in its engaged state but being operatively coupled to the valve when in a disengaged state to open said valve so that fluid can flow through the valve with an audible sound when the internal spaces of the first and second members are other than at atmospheric pressure.







Compl. specn. 16 pages. Drgs. 7 sheets.

Cl. : 668-E_1. 1699

Int. Cl. : H02J 3/46.

GATE-CONTROLLED ELECTRIC DRIVE DEVICE.

Applicant : BELORUSSKY GOSUDARSTVENNY UNIVERSITET IMENI V. I. LENINA, MINSK, LENINSKY PROSPEKT, 4, USSR.

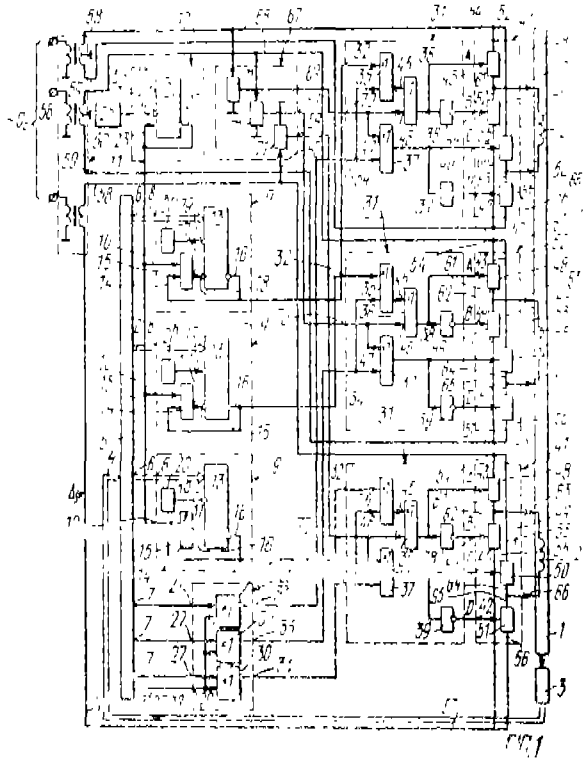
Inventors : (1) LJUDMILA IVANOVNA MATJUKHINA, (2) ALEXANDR SERGEEVICH MIKHALEV, (3) SERGEI NIKOLAEVICH SIDORUK, (4) IGOR MIKHAILOVICH CHUSHENKOV.

Application No. 142/Cal/1988 filed February 16, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A gate-controlled electric drive device being directly connected a.c. mains comprising a synchronous motor with m windings, a shaft position transducer whose output is connected to the address input of a fixed memory storing width and polarity codes of power supply pulses of the windings of the synchronous motor, m outputs for setting a pulse width code of said fixed memory being connected to inputs of m pulse-width modulators; the complementing input of each pulse-width modulator is connected to the output of a controlled-frequency divider whose control input receives the control signal modulus code, while the complementing input is connected to a pulse generator; m outputs for setting a polarity code of the fixed memory are connected to m inputs of a reverser whose control input receives a control signal polarity code; m control units, the control input of each control unit being connected to the output of a corresponding pulse-width modulator, while the polarity setting inputs of (m-1) control units are connected to (m-1) outputs of the reverser; outputs of each control unit are connected to the inputs of a corresponding switching unit based on bidirectional solid-state switches connected in a bridge circuit, the output of said switching unit being connected to a corresponding winding of the synchronous motor characterized in that a timer is connected to m control units and to an m-phase transformer connected to a. c. m-phase supply mains, the input of reserver is connected to the polarity setting output of the fixed memory while the secondary windings of said m-phase transformer being directly connected to the power inputs of the said corresponding switching units.



Compl. specn. 36 pages. Drgs. 5 sheets.

Cl. : 201-C. 169958

Int. Cl. : A61L 2/00.

A METHOD FOR TREATING FILTER DUST, DREDGER MUD (HARBOUR MUD) AND SIMILAR WASTE MATERIALS TO OBTAIN TREATED SAFE WASTE MATERIAL FOR FINAL STORAGE.

Applicant & Inventor : WERNER BLOCK, DURCHHARDTSTRASSE 19, D-6338 HUTTENBERG—WEIDENHAUSEN, WEST GERMANY.

Application No. 148/Cal/1988 filed February 18, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A method for treating filter dust, dredger mud (harbour mud) and similar waste materials to obtain treated safe waste material for final storage, which comprises said untreated waste materials with a binding matrix material such as in particular clay or loam, and an additive material such as a water soluble oil that reduces the capilliary action of the binding material as well as its water-retention capacity by catalytic ion exchange, whereupon the mixture so formed is pressed into blocks of a size suitable for storage after air drying or heat treatment at temperatures between 400 to 1400°C.

Compl. specn. 8 pages. Drg. NIL.

Cl. : 143-C. 169959

Int. Cl. : B65B 11/00.

A BOX-CORDING APPARATUS.

Applicant & Inventor : SAM HONG KIM, 43-3, MYUNGJU-DONG, KANGNEUNG-si, KANGWON-DO, THE REPUBLIC OF KOREA.

Application No. 150/Cal/1988 filed February 19, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

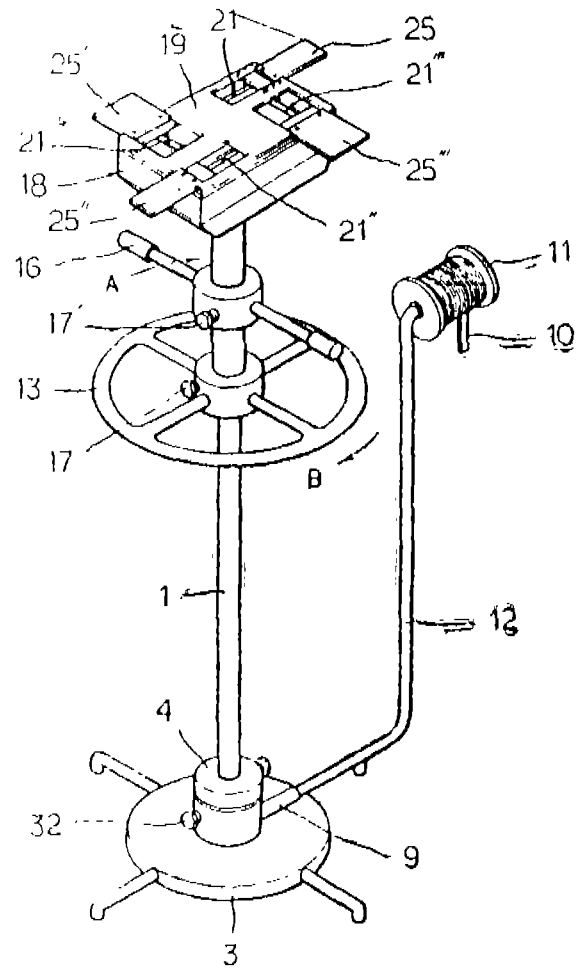
A box-cording apparatus of the type which is used to cord up a packing box after an article is put therein comprising :

a frame means having a base frame on which a box to be corded is loaded and support members slidably installed on said base frame;

a driving means for moving said support members back and forth; and

a frame rotating means having a shaft fixed to said base frame, a control means for the rotation of said shaft and a base for supporting said shaft.

FIG. 1



Compl. specn. 14 pages. Drgs. 7 sheets.

Cl. : 55 E 4. 169960

Int. Cl. : A 61 K 39/12.

A METHOD FOR PRODUCING A NON-A, NON-B HEPATITIS VIRUS ANTIGEN PEPTIDE.

Applicant : THE RESEARCH FOUNDATION FOR MICROBIAL DISEASES OF OSAKA UNIVERSITY, C/O OSAKA UNIVERSITY : 3-1 YAMADAOKA, SUITA-SHI, OSAKA, JAPAN.

Inventors : (1) TERUKATU ARIMA, (2) KONOSUKB FUKAI.

Application No. 724/Cal/1989 filed September 4, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A method for producing a non-A, non-B hepatitis virus antigen peptide which exhibits an antigen-antibody reaction with at least one member selected from the group consisting of serum from a convalescent patient having acute non-A, non-B hepatitis and serum from a patient having chronic non-A, non-B hepatitis, and which does not exhibit an antigen-

antibody reaction either with serum from a human clinically diagnosed as negative to hepatitis or with serum from a patient having hepatitis diagnosed as other than non-A, non-B hepatitis, which comprises :

(a) inserting a deoxyribonucleic acid into a replicable expression vector selected from a plasmid and an animal virus gene to obtain a replicable recombinant DNA comprising said plasmid and said deoxyribonucleic acid inserted therein when said replicable expression vector is a plasmid or obtain a recombinant virus comprising said animal virus gene and said deoxyribonucleic acid inserted therein when said expression vector is an animal virus gene,

said deoxyribonucleic acid comprising at least one nucleotide sequence selected from the group consisting of formula (I) to (VI) :

169960

GAATTCCAAAAAGAGCAAAACAAACCGCCGAAGAAAAAACTAATAAGAGAAGAAAAGGCG
AAGAGACACAGGAAAAAAAAAACAGAGACGAAGGTCAGATAGAAAAAAAGCAAGGAATTC
...(I);

GAATTCCGAGAACAAGACCAGATAAAAACCAAAGACAGAACACAACAGAGAAAGACGAAA
AGAAGCACCAATCGCAGGCGAAGCAAAAACGAAAAAAAAAAAAAAAAAGGAATTC
...(II);

GAATTCCAAGAAAAAAAGGGAGAAGCCAGCAATGGAGAAGCCGAAAACGACACACACAAG
AAACAAAGGAGGTACAAAGAAAAAGAAAAAACGGCAACAAATAACCCAGGAAAGAACAAA
AAGCCAAGAGTGGGCAGAATAAAAAACTGGAACCGGGAGGGAAGGAAGGACGCATATCAG
ATTAGAAAAAGGAGGGAATTC...(III);

GAATTCCTAAGAAATGGCTAGCCCTAGGAGAGGCAGTCTTTCCCCAGTCAGTTAGCCCGC
AAATGCCAGAGCATCAAGAATTCAGAAAAGGAGAAAATATAGTTAATATCAAAGTGGTCG
AAGCCTAAGATAGAGAGGTAGAGAGTATGAAGAGTAAGACGAATACAAACCAAAATTCTG
GAATGATCATTAAAAACATTATTGATAGGTACTTAGAAGGGCAAGAGAGGAAGAAGAAAG
TAATGAGAAATGCTTATGGAAGCCAAAGGAGCTTTCCAGGAGAAGAAAGGGAATTC
...(IV);

GAATTCCCAACGCGTCGGCTTGGCCCGCGCCTTGGCCGCCGACCCGCGCTGATGGCCTG
GAATTC...(V);

GAATTCCGGGGTATTTGCCTCGATCTGCCTGCTCAGCGCTTCGGCCCTCGGCTTCGGCGC
CCTGCTGCTGGCTTCCGAGCAGCTATTGAGCGCCTTGAAAGTGGTTGGCGCGGCGTACGT
GTCCGGGAATTC...(VI);

and nucleotide sequences individually obtained by substituting at least one nucleotide of each of said nucleotide sequences of formulae (I) to (VI) in accordance with degeneracy of genetic code;

(b) transfecting cells of a microorganism with said recombinant DNA when said replicable expression vector used in step (a) is a plasmid, to thereby form a transformant, followed by selection of said transformant from parent cells of the microorganism;

(c) culturing said transformant obtained in step (b) to thereby express said deoxyribonucleic acid and produce a non-A, non-B hepatitis virus antigen peptide in a single form, or culturing said recombinant virus obtained in step (a) to thereby express said deoxyribonucleic acid and said animal virus gene and produce a non-A, non-B hepatitis virus antigen peptide in the form of a multiplied recombinant virus comprising an animal virus and a non-A, non-B hepatitis virus antigen peptide contained on the surface thereof; and

(d) isolating said non-A, non-B hepatitis virus antigen peptide or said multiplied recombinant virus.

Compl. specn. 110 pages. Drgs. 7 sheets.

Ind. Class : 70-A—[GROUP—LVIII(5)] 169961

Int. Cl.[4] : C 25 B 9/00.

AN ELECTROLYSIS APPARATUS.

Applicant & Inventor : ROGER EVAN BILLINGS, OF 3420 PINK HILL CIRCLE, BLUE SPRINGS, MISSOURI 64015, U.S.A., A CITIZEN OF U.S.A.

Application No. 441/MAS/87 filed June 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

An electrolysis apparatus characterised in that it comprises :

(a) at least one electrolysis cell (1) having an anode plate (2) and a cathode plate (4);

(i) each of said anode and cathode plates (2 and 4) having an outer perimeter and having an open porous structure substantially permeable by a liquid, such as water;

(b) a solid electrolyte membrane (3) positioned in said cell (1) between each of said anode and cathode plates (2 and 4);

(c) said electrolysis cell (1) having a first flow passage (6) extending generally longitudinally therethrough;

(d) first seal means (11) substantially preventing fluid flow communication directly between said first flow passage (6) and said cathode plate (4);

(e) said electrolysis cell (1) having a second flow passage (12) extending generally longitudinally therethrough;

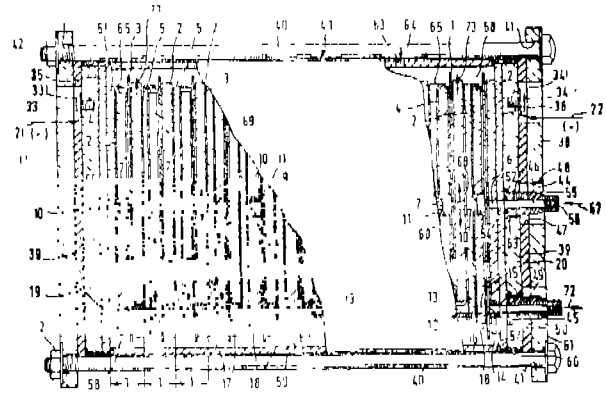
(f) second seal means (17) substantially preventing fluid flow communication directly between said anode plate (2) and said second flow passage (12);

(g) third seal means associated with said outer perimeter of said cathode plate (4), to substantially prevent fluid flow outwardly from said cathode plate (4) along said outer perimeter thereof; and

(h) fluid flow directly means providing fluid flow into said electrolysis cell (1) via said first flow passage (6) and permitting fluid flow into said open porous anode plate (2) from said first flow passage (6);

(i) said fluid directing means permitting fluid flow substantially throughout said anode plate (2) with a portion of said fluid flow directed through said membrane (3) and into said cathode plate (4), and with a portion of said fluid flow directed outwardly of said anode plate (2) along an outer perimeter thereof;

(ii) said fluid directing means further permitting fluid flow from said anode plate (2) and membrane (3) through said cathode plate (4), into said second flow passage (12) therefrom, and out of said electrolysis cell (1).



Compl. specn. 25 pages Drgs. 2 sheets

Ind. Class : 32-C—[GROUP-IX(1)] 169962

Int. Cl.[4] : C 08 L 5/00.

PROCESS FOR THE PREPARATION OF POROUS GRANULES.

Applicant : RHONE-POULENC CHIMIE, A FRENCH BODY, CORPORATE OF 25, QUAI PAUL DOUMER, 92408, COURBEVOIE, FRANCE.

Inventor : BERNARD VINOT.

Application No. 445/Mas/87 filed June 18, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

Process for the preparation of porous granules of a known biopolymer with a degree of aeration between 40 and 60% having an average size of 0.5 to 2mm and an apparent density less than 0.7 comprises forming a biopolymer powder into a fluidised bed with a stream of gas, spraying water on the powder to agglomerate the particles, introducing 0.5 to 10% by weight of the granules of at least one known wetting and/or dispersing agent either with the biopolymer powder or in the sprayed water and drying the granules obtained.

Compl. specn. 17 pages Drg. 1 sheet

Ind. Cl. : 201 A [GROUP II (4)]. 169963

Int. Cl.[4] : C 02 F 1/50.

A CHLORINATOR FOR THE CONTINUOUS GENERATION OF CHLORINE-WATER.

Applicant : PARTHASARATHY SHYAMALA NATHAN, C/O PRECISION CONTROL PRODUCTS, 2-B SIDCO INDUSTRIAL ESTATE, NORTH PHASE, MADRAS-600098, TAMIL NADU, INDIAN NATIONAL.

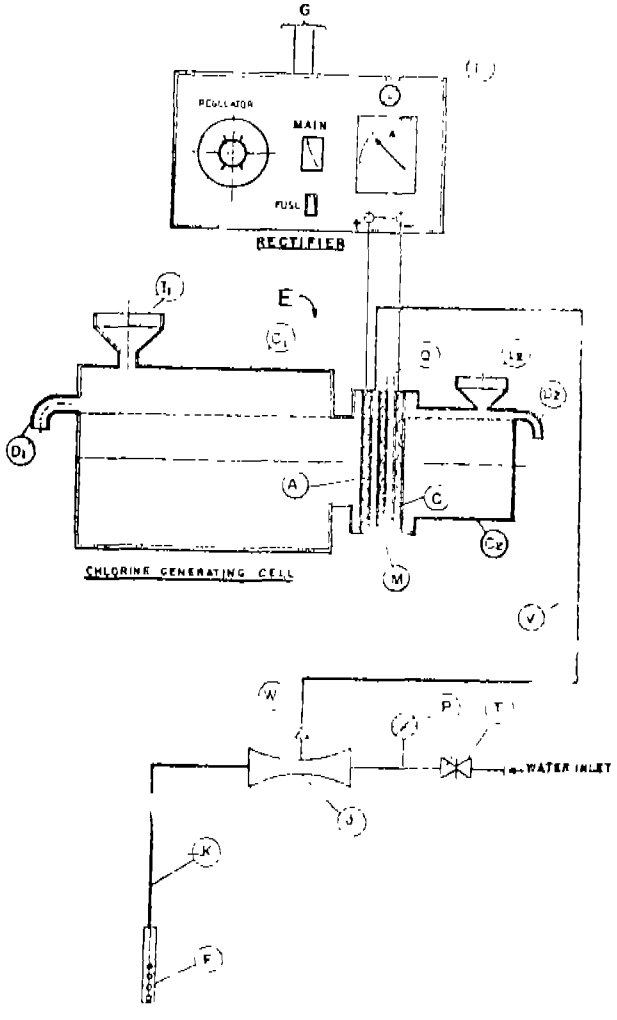
Inventor : TIRUCHENGODE NATESAN BALAKRISHNAN.

Application No. 447/Mas/87 filed on 22nd June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, Madras

7 Claims

A chlorinator for the continuous generation of chlorine water comprising a source of regulated direct current; one or more electrolytic chambers each consisting of a first compartment for receiving sodium chloride solution and a second compartment for receiving water; an anode and a cathode respectively disposed in the first and second compartments and respectively connected to the positive and negative output terminals of the said direct current source; an ion exchange membrane disposed between the anode and cathode characterised in that a vacuum line is provided for the first compartment, the said line being connected to an injector supplied with water from a water supply main, the chlorine generated in the said first compartment dissolving in the water in the injector; and a diffuser connected to the injector to discharge the chlorinated water.



Compl. specn. 8 pages Drg. 1 sheet.

3—417 GI/91

Ind. Class : 32-B —[GROUP-IX(1)]. 169964

Int. Cl.[4] : C 07 C 2/10.

A METHOD FOR OLIGOMERIZING OLEFINS.

Applicant : MOBIL OIL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : (1) GARRY WAYNE KIKER, (2) MICHAEL EUGENE LANDIS, (3) NANCY MARIE PAGE.

Application No 448/Mas/87 filed June 22, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A method for oligomerizing olefins, comprising contacting an olefin containing feed at a temperature of 100—500°C and presesure of 10—20000 kPa with a catalyst which contains thermally stable layered chalcogenide such as herein described, the adjacent layers of which are separated by chalcogenide pillars selected from an oxide of at least one element of Groups IB, IIB, IIIA, IIIB, IVA, IVB, VA, VB, VIA, VIIA and VIIIA of the Periodic Table, and recovering the product in a known manner.

Compl. specn. 24 pages. Drg. Nil.

Ind. Cl. : 39 L [GROUP III]. 169965

Int. Cl.[4] : C 01 B 25/00.

A PROCESS OF PREPARING AN AQUEOUS SOLUTION OF PHOSPHORUS PENTOXIDE IN WATER.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06881, U.S.A. A U.S. COMPANY.

Inventors : (1) AUSTON K. ROBERTS, (2) WILLIAM E. TRAINER, (3) STEVE NAKAMURA, (4) LEON C. DUFFIN, (5) DAVID L. BIEDERMAN.

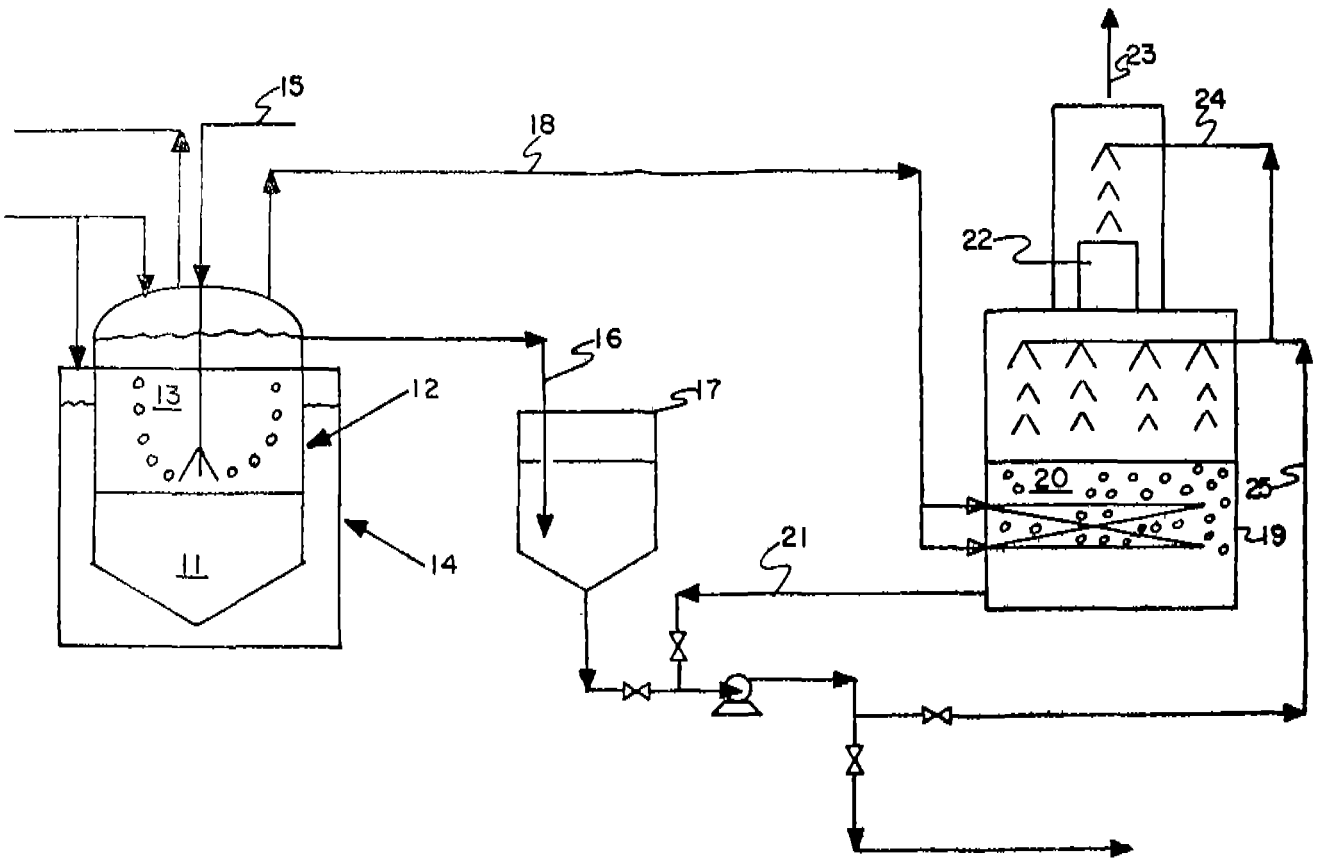
Application No. 450/Mas/87 filed on 22nd June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

4 Claims

A process of preparing an aqueous solutiion of phosphorus pentoxide from phosphorus containing pyrophoric waste material comprising adding water to the said phosphorus containing pyrophoric waste material so as to completely submerge the said waste by water thereby protecting it from direct contact with atmospohere, and passing an oxygen containing gas with an oxygen content of 1 to 100% through

the said water covering the pyrophoric waste material for a period sufficient to dissolve the P_2O_5 from waste material in the said water to obtain an aqueous solution of phosphorus pentoxide



Compl. specn. 14 pages; Drg. One sheet.

Ind. Cl. : 24 D_1 [GROUP IV]. 169966

Int. Cl.[4] : F 16 D 65/14.

BRAKE ACTUATOR.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventors : (1) PHILIP AUGUSTUS TAFT, (2) MICHAEL DAVID KNIGHT.

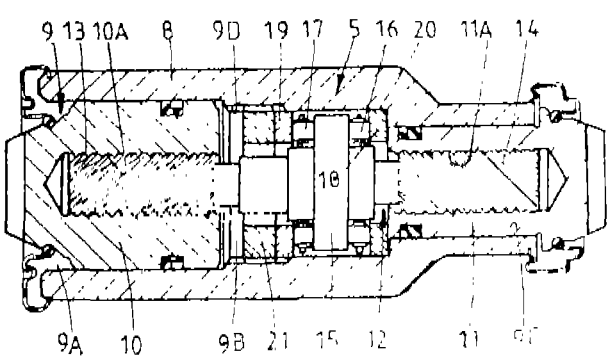
Application No. 458/Mas/87 filed on 24th June, 1987.

Convention dated 26th June, 1986, No. 8615623 (Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

8 Claims

A brake actuator comprising a body adapted to be relatively fixed in use, the body having a pair of bores containing respective pistons, each piston partially defining within the body an hydraulic chamber for receiving hydraulic fluid under pressure for moving said pistons outwardly of the body in order to separate friction elements engaged therewith in use into braking engagement with a rotatable braking surface, and connecting means rotatably mounted in the body and having a pair of oppositely extending oppositely handed reversibly threaded portions which engage respective corresponding threaded portions of the pistons thereby to interconnect the pistons mechanically, the connecting means being axially fixed in the body at a location intermediate the threads, and the arrangement being such that the connecting means rotates freely without transmitting brake-applying force during equal outward brake-applying movement of the pistons under the effect of said fluid pressure, but that, when one piston is moved outwardly by said hydraulic pressure more than the other, this excess movement of said one piston causes rotation of the connecting means via its threaded portion engaged with the connecting means which transmits to said other piston an opposite and proportional movement irrespective of the forces applied to the members, in use, by said friction elements.



Compl. specn. 9 pages; Drg. One sheet

Ind. Class : 57-B [GROUP LXIV(3)]. 169967

Int. Cl.[4] : E 05 F 3/04.

AN IMPROVED SPRING HINGE WITH A DAMPER.

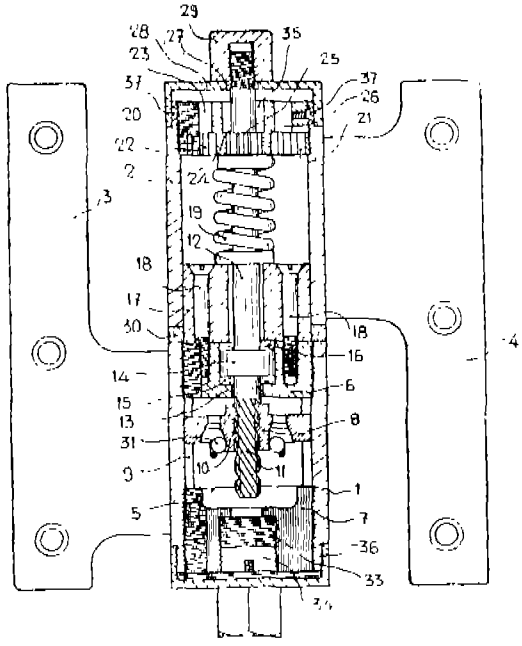
Applicant & Inventor : ZELJKO BEBEX VUKSIC, OF MURTA NO. 28, 46020, VALENCIA, SPAIN, OF SPANISH NATIONALITY.

Application No. 464/Mas/87 filed June 25, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved spring hinge with a damper comprinsing two cylindrical bodies (1, 2) with respective anchoring blades (3, 4) the cylindrical body (1) having closure caps (6, 7) at its ends to form a tight chamber (6) filled with a olehydraulic fluid; the said chamber having a piston with diametrically opposite extensions housed in the longitudinal guides (9) of the cylindrical body (1), a central threaded pitch (10) meshing with the spindle (11) of the axial shaft (12), axial bypass values (31) and perforations (32); the said shaft (12) has a retention ring (14) enclosed in coupling (15, 16) provided in a central perforation (13) of a closure cap at one end (6), the upper surface of the said closure cap (6) having a cylindrical bushing (17), supporting an helicoidal spring (19) coaxial with the shaft (12), the opposite end of the said spring is attached to a disc of a circular crown (20), having an external groove (21) coupled to the inner front part (22) of another closure cap (23) and an inner groove (24) coupled to the shaft (12), the closure cap (23) has an opening for the threaded end of the shaft (12); the said threaded end is attached to the second cylindrical body (2) by means of a nut (29).



Compl. specn. 14 pages; Drgs. 2 sheets

Ind. Class : 141-D [GROUP XXXIII(8)]. 169968

Int. Cl.[4] : C 22 B 1/14.

A PROCESS FOR PRODUCING AGGLOMERATES OF METALS OR OXIDIC OF METALS AT LOW TEMPERATURE.

Applicant : IMPERIAL SMELTING PROCESSES LIMITED, A BRITISH COMPANY, OF 1 REDCLIFF STREET, BRISTOL, GREAT BRITAIN.

Inventor : ALBER KRUGER.

Application No. 482/Mas/87 filed July 6, 1987.

Convention date : July 5, 1986; (No. 8616543, Great Britain).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for producing agglomerates of metals or oxidic of metals such as herein described at low temperature comprising mixing 5 to 50% by weight of the metals or oxidic of metals with 3 to 20% by weight of an aqueous salt solution such as sulphide lye or aqueous sodium silicate and 2 to 10% by weight of a known void filler, agglomerating the said mixture at a temperature between 10° and 50° followed by curing the agglomerates at ambient temperature to obtain agglomerates of metals or oxidic of metals having sufficient green strength.

Compl. specn. 13 pages; Drg. 1 sheet

Ind. Class : 136 B [GROUP XIII]. 169969

Int. Cl.[4] : B 29 D 23/22.

AN IMPROVED PROCESS OF PRODUCING CARTRIDGE TUBES.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) HORST GEBLER, (2) GERHARD PFAHLER, (3) ARNOLD SCHINDLER.

Application No. 517/Mas/87 filed July 20, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved process of producing cartridge tubes comprising :

(i) mixing HD polyethylene with 0.01 to 2% by weight, of the HD polyethylene, one or more compound selected from :

(a) saturated or unsaturated, linear or branched, monocarboxylic or polycarboxylic acid having 14 to 40 carbon atoms,

(b) a monocarboxylic alcohol having 14 to 40 carbon atoms,

(c) an ester of a saturated or unsaturated, linear or branched, monocarboxylic or polycarboxylic acid having 14 to 40 carbon atoms with monofunctional or polyfunctional aliphatic or aromatic alcohol,

(d) a salt of saturated or unsaturated linear or branched monocarboxylic or polycarboxylic acid having 14 to 40 crabon atoms with a metal group IA, IIA or IIB of the periodic table,

(e) an amide of saturated or unsaturated linear or branched monocarboxylic acid having 14 to 40 carbon atoms with ammonia or monofunctional or polyfunctional amines,

(f) alkylsulfate or alkylsulfonate containing linear or branched C_6 to C_{36} alkyl radicals and an alkali metal ion;

(ii) extruding the same in the form of a tube having a diameter of 15 to 25 mm and a wall thickness of 1 to 5 mm,

(iii) drawing the tube longitudinally at a ratio of 11 : 5 to 1 : 8 at a temperature of 120°C to 130°C,

(iv) stretching transversely at a ratio of 1 : 1.2 to 1 : 1.8, and,

(v) fluting the inner surface of the tube in a known manner followed by cooling to obtain the cartridge tube.

Compl. specn. 10 pages; Drg. Nil

Ind. Class : 167 D [GROUP XXXIV(4)]. 169970

Int. Cl.[4] : B 07 B 4/02.

AN APPARATUS FOR THE SEPARATION OF A MIXTURE OF PARTICULATE MATERIAL IN A WIND TUNNEL.

Applicant & Inventor : ROBERT GEORGE STAFFORD, OF 1 UNWIN CRESCENT, MANNING, IN THE STATE OF WESTERN AUSTRALIA, COMMONWEALTH OF AUSTRALI, A BRITISH CITIZEN.

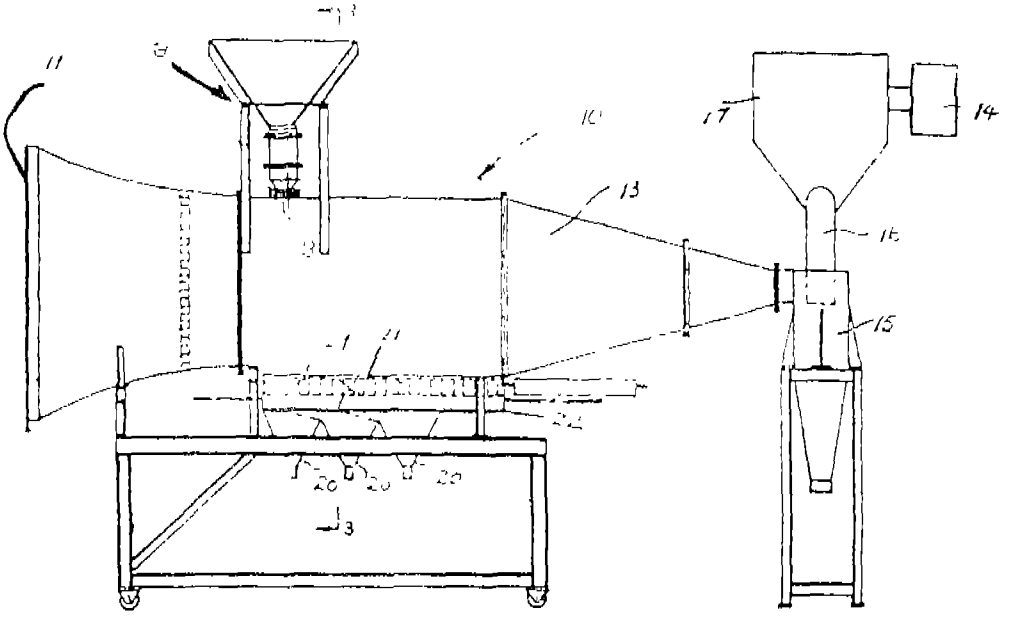
Application No. 523/Mas/87 filed July 22, 1987.

Convention date : August 1, 1986; (No. PH07242; Australia).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

14 Claims

Apparatus for the separation of a mixture of particulate material comprising a wind tunnel having an entry section, an exit section and a main section, the entry section being provided with a plurality of damper blades located across the cross-section, being movable to control the magnitude and uniformity of the airflow through the entry section, the said exit section being provided with a dust collection means and a fan means in or communicating with the exit section for creating a flow of air through the wind tunnel from the entry section to the exit section, inlet means being provided at the top side of the main section for introducing particulate material across substantially the full width of the airflow, a plurality of collectors each extending transversely across the main section and spaced axially along the bottom side of the main section, the said main section is of substantially rectangular cross-section having uniform cross-sectional width and height from the entry section to beyond the collectors and colinear with the said entry section, the entry section being open, having flared configuration converging in the direction of the airflow into the wind tunnel, the inner end of the entry section and that of the exit section being of corresponding rectangular cross-section for providing a laminar airflow through the main section.



Compl. specn. 21 pages;

Drgs. 6 sheets.

Ind. Class : 194 $C_{0}(_{0})$ [GROUP LXIII(4)]. 169971

Int. Cl.[4] : H 01 J 9/26

A COMPOSITION OF MATTER FOR THE RELEASE OF NITROGEN GAS.

Applicant : SAES GETTERS S.p.A., VIA GALLARATE, 125/217, MILANO (ITALY), ITALIAN JOINT STOCK COMPANY.

Inventor : DANIELE MARTELLI.

Application No. 884/Mas/87 filed on 8th December, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

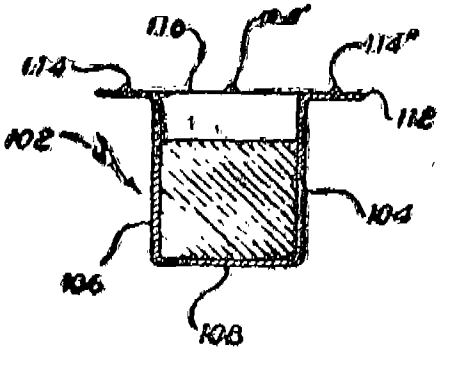
A composition of matter for the release of nitrogen gas comprising :

A. particulate Fe_4N,

B. particulate Ni, having a particle size distribution of;

0—9 percent by weight smaller than	5/um
7—28 percent by weight smaller than	10/um
21—46 percent by weight smaller than	15/um
35—56 percent by weight smaller than	20/um
49—65 percent by weight smaller than	30/um
58—75 percent by weight smaller than	40/um
69—86 percent by weight smaller than	60/um
78—93 percent by weight smaller than	80/um
at least 92 percent by weight smaller than	100/um

C. particulate Al, the weight ratio of B to C is 1 : 10 to 10 : 1, and the weight ratio of A to (B+C) is 1 : 5 to 5 : 1.



Compl. specn. 13 pages.

Drg. One sheet

Ind. Class : 195 D [GROUP XXIX(3)]. 169972

Int. Cl.[5] : F 16 k 31/00.

A FIRE-SUPPRESSING SAFETY VALVE.

Applicant : MAROTTA SCIENTIFIC CONTROLS, INC, A CORPORATION OF THE STATE OF NEW JERSEY OF 1500 BOONTON AVENUE, BOONTON, NEW JERSEY 07005, U.S.A.

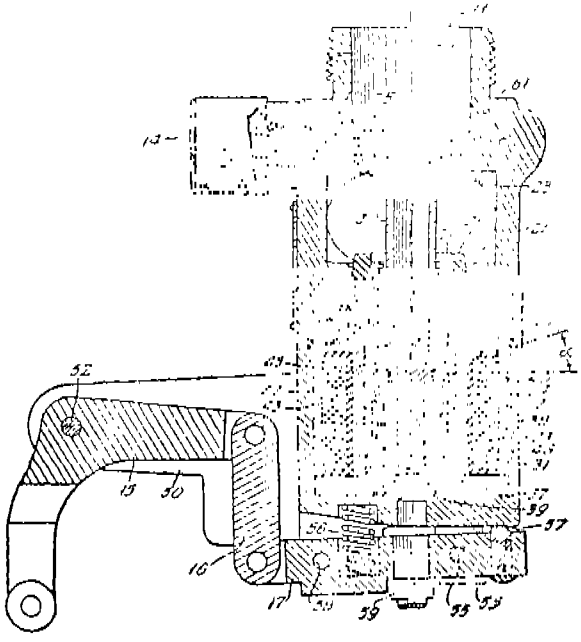
Inventor : SLAWOMIR KOWALSKI.

Application No. 660/Mas/87 filed on September 9, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

6 Claims

A fire-suppressing safety valve comprising a valve member normally poised in valve-closed position to retain a high-pressure suppressant charge in an up.tream chamber in readiness for rapid discharge via a downstream chamber upon quick-opening displacement of the valve member, characterised in that said valve is provided with an electrical switch capable of changing the switching state in response to mechanical displacement of an actuating element between an unactuated position and an actuated position and fluid-pressure-responsive movable-piston means operatively associated with the actuating element of said switch, said piston means have a relatively small area head end connected for exclusive response to upstream-chamber pressure and a relatively large-area tail end connected for exclusive response to downstream-chamber pressure, venting means interposed between said head and tail ends, first seal means isolating said venting means from said head end and therefore isolating said head end for exposure to upstream-chamber pressure, and second seal means isolating said venting means from said tail end and therefore isolating said tail end for exposure to downstream-chamber pressure.



Compl. speen. 13 pages: Drgs. 3 sheets

Ind. Class . 134 B [GROUP LII(1)]. 169973

Int. Cl.[4] : F 16 D 43/24.

A PIVOTLESS CENTRIFUGAL AUTOMATIC CLUTCH.

Applicant . TVS-SUZUKI LIMITED, HARITA, HOSUR 635 109. TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

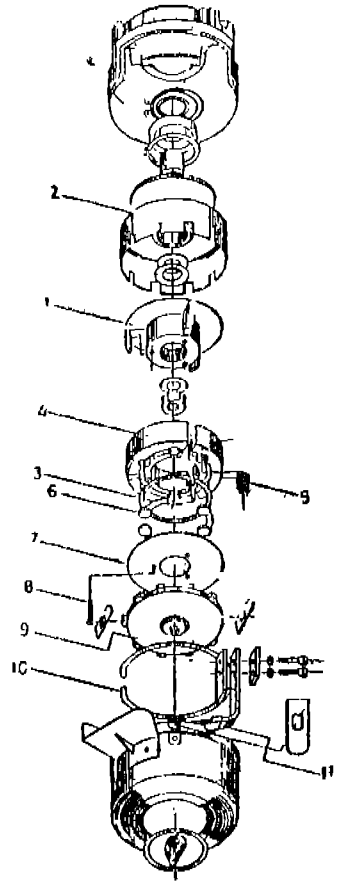
Inventor : MEDURI NEELACHLAPATHY MURALI-KRISHNA.

Application No. 376/Mas/88 filed on 1st June, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

5 Claims

A pivotless centrifugal automatic clutch comprising a clutch hub and clutch housing, the clutch hub being fast-mounted and the clutch housing freewheeling on a crankshaft; a plurality of clutch shoes located on the clutch hub and resiliently bound by a ring-spring; and a locking plate fastened on to the clutch hub, the arrangement being such that, during rotation of the crankshaft, whenever the centrifugal force on the clutch shoes exceeds the resilience of the said ring-spring the clutch shoes move radially outwards to contact, and thus transmit power to, the clutch housing.



Compl.speen. 7 pages: Drg. One sheet.

Ind. Class—32-F $_{2(b)\&(d)}$—[GROUP-IX(1] 169974

Int. Cl[4] —C07D 233/54

A PROCESS FOR PRODUCING IMIDAZOLE COMPOUNDS

Applicant ISHIHARASANGYO KAISHA, LTD. OF 3-22, EDOBORI 1-CHOME, NISHI-KU, OSAKA-SHI, OSAKA, JAPAN A JAPANESE COMPANY.

Inventors : (1) RIKUO NASU
(2) TERUMASA KOMYOJI
(3) KAZUMI SUZUKI
(4) TOSHIO NAKAJIMA
(5) KEIICHIRO ITO
(6) TAKESHI OHSHIMA
(7) HIDESHI YOSHIMURA

Application No 145/Ma /88 filed March 7, 1988

Appropirate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

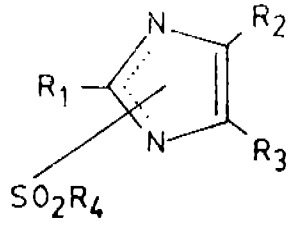
2 Claims

A process for preparing an imidazole compound represented by the general formula (I) of the accompanying drawings.

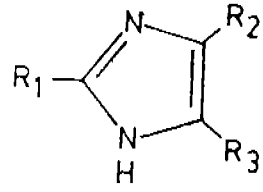
wherein R_1 represents a cyano group or a -CSNHR$_5$ group, wherein R_5 represents a hydrogen atom, a C_{1-4} alkyl group, or a -COR$_6$ group, wherein R_6 represents a C_{1-4} alkyl group a halogenated C_{1-4} alkyl group, or a phenyl group; R_2 and R_3 each represents a hydrogen atom; a halogen atom; a nitro group; a cyano group; a triethylsilyl group; a C_{3-6} cycloalkyl group; a naphthyl group; a C_{1-12} alkyl group which is optionally substituted with one or more halogen atoms, hydroxyl groups, acetoxy groups, C_{1-4} alkoxy groups, halogenated C_{1-4} alkoxy groups, phenyl groups, halogenated phenyl groups, or C_{1-4} alkylated phenyl groups; a C_{2-10} alkenyl group which is optionally substituted with one or more halogen atoms; a C_{1-6} alkoxy group which is optionally substituted with one or more halogen atoms; a phenyl group which is optionally substituted with one or more halogen atoms, C_{1-4} alkyl groups, halogenated C_{1-4} alkyl groups, C_{1-4} alkoxy groups; halogenated C_{1-4} alkoxy groups; C_{1-4} alkylthio groups; halogenated C_{1-4} alkylthio groups, nitro groups, cyano groups, or 3, 4—methylenedioxy groups; a furyl group which is optionally substituted with one or more halogen atoms or C_{1-4} alkyl groups; a thienyl group which is optionally substituted with one or more halogen atoms or C_{1-4} alkyl groups; a pyridyl group which is optionally substituted with one or more halogen atoms or C_{1-4} alkyl groups; an -SO$_n$R$_7$ group, wherein R_7 represents a C_{1-6} alkyl group, a C_{2-6} alkenyl group, a phenyl group which is optioally substituted with one or more halogen atoms, a benzyl group, a pyridyl group which is optionally substituted with one or more halogen atoms, C_{1-4} alkyl groups, or halogenated C_{1-4} alkyl groups; or an -NR$_8$ R$_9$ group, wherein R_8 and R_9 each represents a C_{1-4} alkyl group, and n is 0, 1, or 2; or a -CO(NH)$_m$R$_{10}$ group, wherein R_{10} represents a C_{1-4} alkyl group which is optionally substituted with one or more halogen atoms; a C_{1-4} alkoxy group which is optionally substituted with one or more halogen atoms, or a phenyl group which is optionally substituted with one or more halogen atoms; and m is 0 or 1; and R_4 represents a C_{1-6} alkyl group which is optionally-substituted with one or more halogen atoms; a C_{3-6} cycloalkyl group; a phenyl group; a thienyl group; or an -NR$_{11}$R$_{12}$ group, wherein R_{11} and R_{12} each represents a hydrogen atom, a C_{1-4} alkyl group which is optionally substituted with one or more halogen atoms a C_{2-4} alkenyl group, or R_{11} and R_{12} are combined with each other together with a nitrogen atom adjacent thereto to form a pyrrolidinyl group, a piperidinyl group, a morpholino group, or a thiomorpholino group, provided that R_{11} and R_{12} are not simultaneously a hydrogen atom; provided that R_2 and R_3 are not simultaneously a halogen atoms; comprises reacting a compound represented by the general formula (II) of the accompanying drawings.

wherein R_1, R_2 and R_3 are as defined above, with a compound represented by general formula III of the accompanying drawings.

wherein R_4 is as defined above, and Y represents a halogen atom and recovering the imidazole compound of the formula I from the reaction mixture in a known manner.



FORMULA - (I)



FORMULA - (II)

Y - SO$_2$R$_4$

FORMULA - (III)

Com. - 113 pages; Drgs. - 5 sheets

Ind. Cl. : 172 D$_1$ [GROUP XX] 169975

Int. Cl.^{5} : D 01 H 7/882 & D 01 H 1/135.

FRICTION SPINNING DRUM.

Appliicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

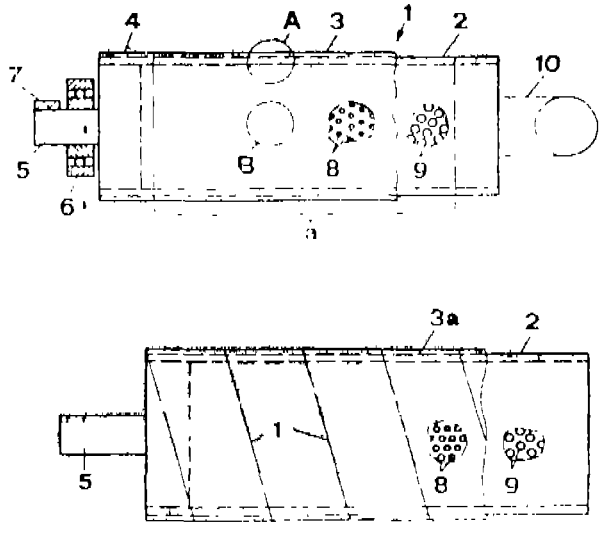
Inventors : (1) HERBERT STALDER, (2) URS KELLER, (3) WERNER OEGGERLI, (4) EMIL BRINER.

Application No. 657/Mas/87 filed on 9th September, 1987.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

6 Claims

Friction spinning drum (1) for radial throughflow of air, characterised in that it comprises an inner rigid hollow support (2) havinng perforations (9) and an external flexible body (3) with a spiral metal band (3a) mounted thereon and having perforations (8), wherein the perforations (9) of said inner rigid hollow support (2) is larger than the perforations (8) of said external flexible body (3) and manufacturing burrs around perforations (8) are directed towards the external surface of the body.



Compl. Specn. 12 pages; Drgs. 2 sheets.

Ind. Cl. : 85 R [GROUP XXXI] 169976

Int. Cl.[4] : F 27 B 1/10.

DEVICE FOR ADJUSTING THROAT ARMOUR IN SHAFT FURNACES.

Applicant : MANNESMANN AKTIENGESELLSCHAFT, OF MANNESMANNUFER 2, D-4000 DUSSELDORF 1, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

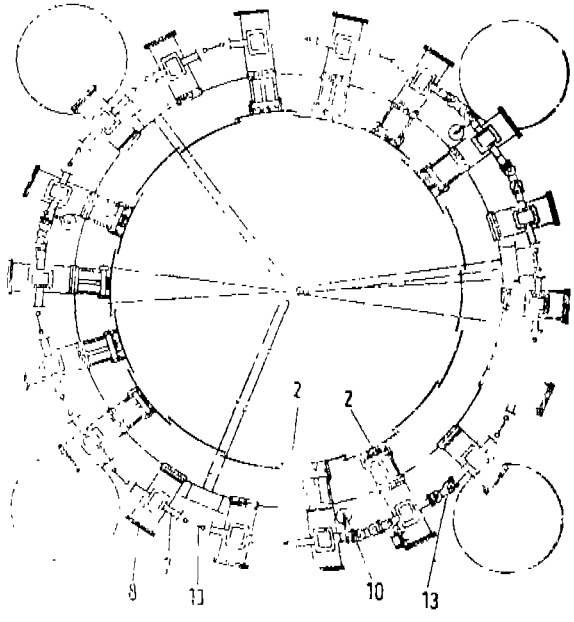
Inventor : HARTMUT HILLE.

1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

4 Claims

A device for adjusting throat armour composed of segments in shaft furnaces, particularly in blast furnaces, wherein the segments are pendulously mounted and arranged in two rows with an overlap on theiir lateral edges, and wherein the segments are respectively provided with a reaward connecting or driving rod engaged by a lever swivelling about a horizontal shaft characterised in that the shaft (7) of each lever (6) is prolonged or extended on both sides and connected via link couplings (13) to the shafts of other levers, and that at least one adjustment or shifting drive (10, 11) is connected to at least one of the shafts (7).



Compl. Specn. 10 pages; Drgs. 2 sheets.

Ind. Cl. : 94 G [GROUP XXXIV(2)]. 169977

Int. Cl.[4] : B 22 F 3/02.

AN APPARATUS FOR COMPACTING CARBONACEOUS BLOCKS FROM CARBONACEOUS PASTE.

Applicant : ALUMINIUM PECHINEY, OF 23 RUE BALZAC, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventors : (1) CLAUDE VANVOREN, (2) BENOIT COSTE, (3) JEAN BIAREZ, (4) FRANCOIS KEIME.

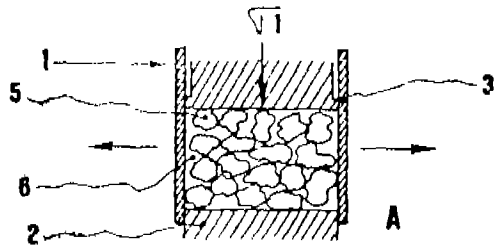
Application No. 599/Mas/87 filed on 18th Augst, 1987.

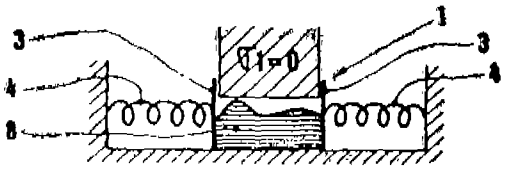
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

4 Claims

An apparatus for compacting carbonaceous blocks from carbonaceous paste made from carbonaceous aggregate and suitable organic binder, such as tar, characterised in that the said apparatus comprises a mould (1) having a non-deformable bottom (2) and pulrality of movable walls (3) the axes of said movable walls being oriented along different directions, at least a pair of parallel movable walls (3) being provided with hydraulic jacks having springs of pre-

determined stiffness and removable blocking means (7) for blocking the movable walls at a predetermined distance.





Compl. Specn. 11 pages; Drgs. 2 sheets

Ind. Cl. : 32 F 3(a) [GROUP IX(1)] 169978

Int. Cl.[4] : C 07 C 43/20.

A PROCESS FOR PREPARING A POLYFUNCTIONAL VINYLBENZYL ETHER.

Applicants : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A. OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A. AND ALLIED-SIGNAL INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U. S. A. OF COLOMBIA ROAD & PARK DRIVE, MORRISTOWN, NEW JERSEY 07960 U.S.A.

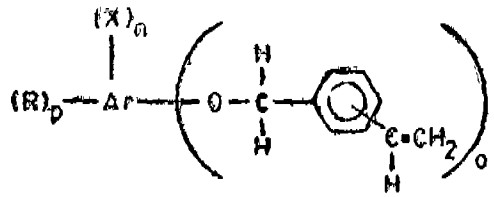
Inventors : JAMES P GODSCHALK, EDMUND P WOO, PATRICIA A SCHRADER, PETER D ALDRICH.

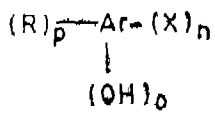
Application No. 585/Mas/87 filed on 13th Augst 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

7 Claims

A process for preparing a poly functionanl vinylbenzyl ether of the formula I of the accompanying drawings wherein A1 is an aromatic nucleus of from 6 to 24 carbon atoms, X is a halogen moiety, R is hydrogen or an alkyl group of from 1 to 6 carbon atoms, n is an integer of at least 1; o is an integer of at least 2 and p is the remaining number of sites available on the aromatic nucleus which are not substituted with the halogen or oxygen containing moiety; comprises reacting (a) a polyhydric halogenated phenolic compound of the formula III of the drawings wherein A, X, R, n and o are as defined in formula I; p is the remaining number of sites available on the aromatic nucleus which are not substituted with the halogen or hydroxyl moieties; with b an amount of vinylbenzyl chloride sufficient to provide at least 2 vinylbenzyl ether moities per polyhydric phenolic compound.





FORMULA - III

Compl. Specn. 18 pages; Drgs. 2 sheets.

Ind. Cl. : 23 F [GROUP-XL (3)] 169979

Int. Cl.[4] : B 65 D 5/32.

A PACKAGE.

Applicant : AB AKERLUND & RAUSING, A SWEDISH COMPANY. OF BOX 22, 22100 LUND, SWEDEN.

Inventors : (1) GORAN STROM, (2) FRANS JOHANSSON AND (3) BENGT BJORKLUND.

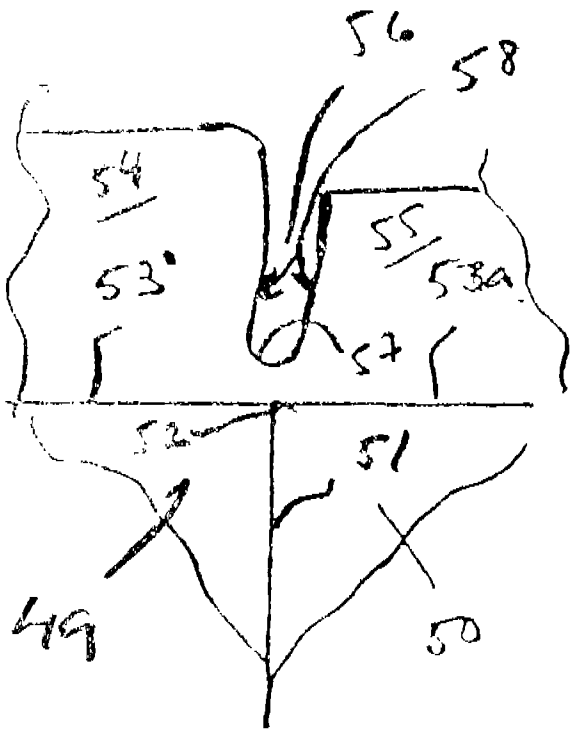
Application No. 561/Mas/87 filed on August 4, 1987.

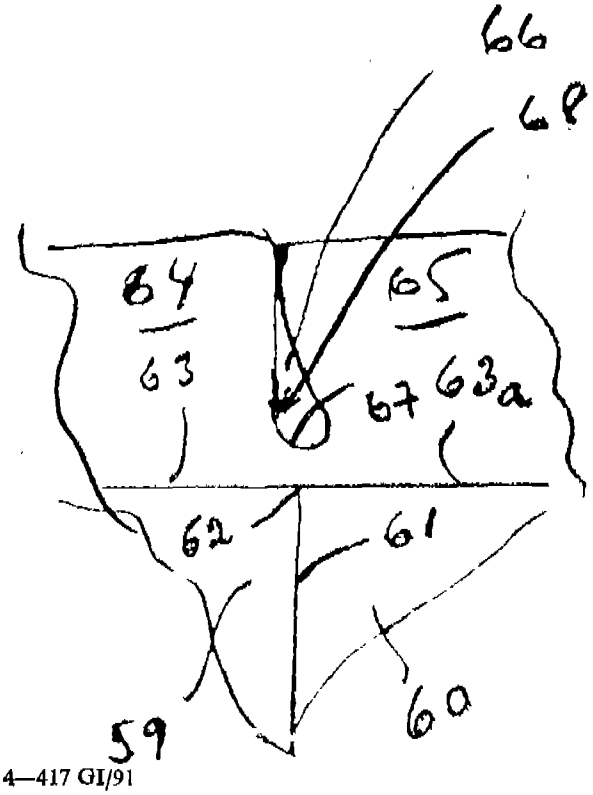
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Madras.

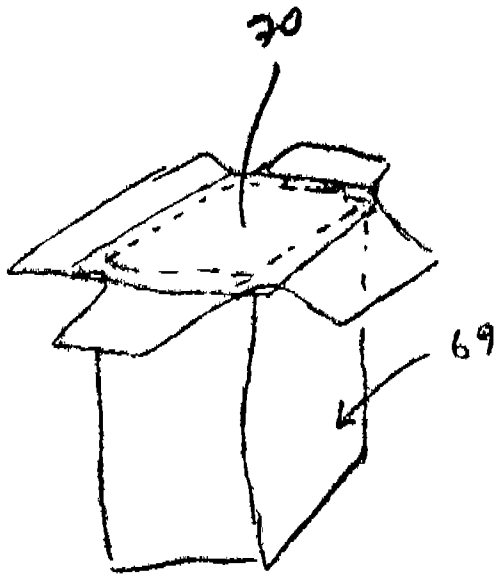
2 Claims

A package comprising a sleeve of a material such as cardboard formed by side wall panels (49, 50; 59, 60) and end closure panels (54, 55; 64, 65) integral with each end of the sleeve for forming a package (69) of the folding box type, characterised in that first creasing lines (51, 61) extending in the longitudinal direction of the folding box define a polygonal cross section of the folding box and second creasing lines (53, 53a; 63, 63a) perpendicular to said first creasing lines define transitions between the sleeve and a respective end closure panel, the end closure panels (54, 55; 64, 65) being partially separated by a punched-out portion (56, 66) away from a straight line joining adjacent said second creasing lines (53, 53a; 63, 63a), the said punched-out portion defining a panel outer edge line between each pair of adjacent end closure panels, the said panel outer edge line being a continuously curved and unbroken line (57, 67) arranged such that the point of the curve nearest the said straight line joining adjacent said second creasing lines is substantially in line with a said first creasing line (51,

61), wherein a pair of said second creasing lines (53, 53a; 63, 63a) and corresponding first creasing line (51, 61) originate from one and the same point (52, 62) which defines a corner at either folding box end.







Compl. Specn. 12 pages; Drgs. 4 sheets.

Ind. Cl. : 10-B-[GROUP-XXXIX(2)] 169980

Int. Cl.[1] : C 06 C 7/00
F 42 B 1/04.

A NON-PRIMARY CHARGEDETONATOR.

Applicant : IDL CHEMICALS LIMITED, SANATHNAGAR (IE), (PO) HYDERABAD-500 018, ANDHRA PRADESH, INDIA.

Inventors : (1) JANARDANAN NAIR NANDAKUMAR, (2) DR. ARSHAD AHMED, (3) RAJAGOPALAN VEDAM, (4) DR. ERODE GANAPATHY MHADEVAN.

Application and Provisional Specification No. 590/Mas/87 filed August 17, 1987.

Complete Specification left August 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

4 Claims (No drawing)

A non-primary charge detonator comprising a fuse head enclosed within a holder and fitted to a metallic tube capable of withstanding filling and compaction of a secondary explosive, one end of said tube being closed with a metallic or plastic foil so as to retain the said secondary explosive having a particle size ranging from 75 microns to 250 microns and held in the form of a plurality of layers compacted at pressures in the range of 5 to 85 Kg/Cm^2, the bottom most layer having been compacted at a maximum pressure while each of the successive top layer is compacted at a progressively less pressure, the top most layer having been compacted at a pressure of not more than 10 Kg/Cm^2, the said holder fitted with said fuse head being fastened to a metallic tube to form an air-tight seal, said fuse head capable of being initiated electrically or non-electrically in a manner known per se.

Prov. 6 pages; Compl. 10 pages.

OPPOSITION PROCEEDINGS UNDER SECTION 25

The opposition entered by Research, Design and Standard Organisation to the grant of a Patent on application No. 163120 made by Subhani Sayeed as notified in the Gazette of India, Part-III, Section 2 dated 4th March, 1989 has been allowed and the application for the patent has been refused.

OPPOSITION PROCEEDINGS UNDER SECTION 25

An Opposition has been entered by Council of Scientific & Industrial Research to the grant of a Patent on Application No. 168910 made by Pennwalt Corporation.

REFUSAL OF PATENTS UNDER SECTION 27 WITHOUT OPPOSITION

The application for patent No. 163120 made by Subhani Sayeed as advertised in the Gazette of India, dated 13th August, 1988 has been refused under Section 27 of the Patents Act, 1970 by the order of the Scientific Officer dated 5th December, 1991.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Proposed amendments under section 57 in respect of Patent Application No. 165602 (591/Mas/86) as advertised in the Gazette of India dated 27-7-1991 have been allowed.

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by Shri Ravindrakumar Ramjibhai Yadav, an Indian, At plot No. 723/1/A, Shivam Society, Sector-21 Gandhinagar-382 021, India, in respect of patent application No. 168711 (28/Bom/1988) as advertised in Part III, Section 2 of the Gazette of India, dated 3-8-1991 have been allowed.

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by SANTRADE LIMITED, a company incorporated under the Swiss Laws, Alpenqual 12, 6002 Luzern, Switzerland in respect of Patent No. 168811 (155/Bom/1987) as advertised in Part III, Section 2 of the Gazette of India dated 3-8-1991 have been allowed.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that SORG GmBH & Co. KG., of Im Aller 23 8770 Lohr/Main, Federal Republic of Germany, a German Company, have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of their application for Patent No. 168858 for GLASS MELTING FURNACE WITH IMPROVED EFFICIENCY. The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months form the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not file with the Notice of Opposition it shall be left within one month from the date of filing the said Notice.

PATENT SEALED

161169 166634 167353 167603 167606 167607 167608
167629 167630 167636 167639 167640 167984 167986
167988 167989 167990 167991 168091 168092 168093
168094 168103 168105 168106 168115 168128 168131
168132 168133 168137 168138 168286 168329 168331
168333 168334 168335.

Cal — 13
Del — 12
Mas — 12 & Bom — 01.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECH. & GENERAL LIST NO. IV

The following patents in the field of mechanical & General Engineering Industry, are not being commercially worked in India as admitted by patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1989 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the invention
1	2	3	4
158648	23-5-1983	A. Ahlstrom or SF, 29600 Noormarkku, Finland.	An apparatus for recovering heat from gas containing molten components.
162969	3-10-1985	AE BISHOP, 19, Buffalo Road, Gladesville, New South Wales. Commonwealth of Australia.	A Die Head for a Roll imprinting machine.
163790	29-3-1985	AIRLEC VEHICLES LTD., A British Company, of Unit 3, Hortonclose, West Drayton, Middle sex, England U By, 8EB.	Apparatus for raising and/or lowering of loads.
148540	20-1-1978	AKTIEBOLAGET MEDLINE Wallingston 37 S-11124, Stockholm, Sweden.	Device for atleast temporary occlusion of body channels.

1	2	3	4
159222	7-2-1984	ALBAN PUTZ, of Hellgasse, 10, 5456 Rheinbrohl, Federal Republic of Germany.	Method for manufacturing a diecasting or injection moulding mould and method so manufactured.
157730	11-1-1982	AMBAC INDUSTRIES, A corporation Organised and existing under the laws of the state of Delaware, of 3664, Mainstreet, Spring field, Massachusetts, D1107, U.S.A.	An improved fuel injection pump.
153500	12-10-1982	AMABAC INDUSTRIES, INC. of 5200, Auto Clabdrive, Dearborn, Michigan 48126, U.S.A.	Improved smoke control apparatus for a turbocharged diesel engine.
160965	1-10-1983	-Do-	Apparatus for indicating an operating characteristic of an internal combustion engine.
153955	1-10-1933	AMBAC INDUSTRIES, of 5200, Auto Club Drive, Dear Born, Michigan 48126, U.S.A.	An apparatus for controlling the recirculation of exhaust gas in a compression ignition ordiesed engine.
162752	14-12-1983	Do.	Timing control mechanism for an engine drive fuel injection pump.
162800	19-12-1984	Do.	Apparatus for controlling the maximum fuel supply quantity of an internal combustion engine emitting an exhaust gas stream.
154791	4-8-1931	AMERICAN STANDARD INC. State of Delaware, 40 West 40th Street, New York, New York, 10018, U.S.A.	Lacking device for reducing a draft gear to a compressed state prior to installing or removing a draft gear from railway cars.
154685	15-2-1982	AMITAVA GHOSH DASTTIDAR, 61B, Shakespeare Sarani, Calcutta-700017, West Bengal, India.	Reinforced concrete piles.
154663	29-6-1984	Do.	Reinforced concrete piles.
157662	3-1-1983	ANSONIA HOLDINGS OF EDIFICIO COMOSA, PISO No. 2 AVENIDA SAMUEL LEWIS, APARTADO POSTAS, P.O. BOX 5108, PANAMA-5 Republic of PANAMA. Natrum Sylvain, a French Citizen, of 16, Avenue Dumas 1206, Geneve, Switzerland.	Tooth brush.
159386	25-1-1984	ARAP, Applications Rationnelles de la physique, 70 Rue Yvan Trourgue, Neff 78380, Bougival, France.	A wheel for a centrifugal compressor and a method of making such a wheel.
164346	19-3-1986	ARTHUR ERNESTBISHOP, VKL, 19 BUFFALO RD, GLADESVILLE, NEW SOUTH WALES, COMMON WELTH OF, AUSTRALIA.	Core for a rotary valve for a power steering system.
147459	2-2-1977	Arthur Gneupal, Bitziberg 5, Bachenulach, Switzerland.	Ozonizer.
159133	22-7-1983	A tlantis Energie AG, Thunstrasse 8, 3000, Bern 6, (Canton of Berne) Switzerland.	Apparatus for automatically directing solar radiation focused by reflector and a solar power plant comprising such apparatus.
154338	12-6-1980	Automotive Products Plc, Tachbrook Road, Leamington SPA, Warwickshire CV31, 3ER, England.	Ball and socket joints.
162760	15-1-1985	AXEL JOHNSON ENGINEERING, of Hamngatan, 60, S-14900, Nynashamn, Sweden.	A plate pack for a lamella separator.
163337	1-5-1985	AXEL JOHNSON ENGINEERING, of Hamngatan 60, S-14900, Nynashamn, Sweden.	An apparatus for separating suspended or emulsified matters in liquids.
153259	11-9-1979	Bakelittfabrikken A/S, Drammensvelen 30, Oslo 2, Norway.	Method of producing moulded bodies of expanded plastic.

1	2	3	4
154250	6-3-1981	Beheermaatschappij, H..D. Groeneveld B.V. No. 542, Ringdijk, 2987 Vz, Bolnes, The Netherlands.	A fire-proof wall.
160964	2-9-1983	Belott Corporation of P.O. Box 300, Beloit, Wisconsin, 53511, United states of America.	A press mechanism for removing liquid from a travelling web, fibrous.
161023	10-5-1983	Beloit Corporation, of P.O. Box-350, Beloit, Wisconsin-53511, U.S.A.	Improved head box assembly used in paper manufacture.
161884	20-7-1984	Beloit Walmsley, a British Company, of Wood Street, Buny, Lancashire, BL8, 2QJ, England.	Improvements in or relating to twin wire paper forming machines.
163194	3-1-1985	Beloit Corporation, of P.O. Box, 350 Beloit, Wisconsin, 53511, U.S.A.	Super Calenders.
163353	2-1-1985	Beloit Corporation, of P.O. Box 350, Beloit, Wisconsin-53511, U.S.A.	Automatic device for removing curl from a web of open material.
163356	3-10-1985	Beloit Corporation, of P.O. Box 350, Beloit, Wisconsin-53511, U.S.A.	Apparatus for the manufacture of paper pulp.
163454	2-4-1985	Do.	Improvement in paper machine head box.
163512	5-3-1985	Do.	Stream heated drayer drum having stationery siphon and spoiler bars and a method of obtaining dried web material therefrom.
163867	1-10-1985	Beloit Corporation, P.O. Box 350, Beloit, Wisconsin-53511, U.S.A.	Rolls for operating at a predetermined temperature.
164365	2-8-1985	Beloit Corporation, of P.O. Box 350, Beloit, Wisconsin-53511, U.S.A.	A winder control for preparing a finished paper roll from a sheet having a predetermined length of sheet material.
164369	14-1-1986	Do.	Apparatus for controlling a paper making refiner.
164787	22-7-1985	Do.	A controlled deflection roll for paper making machine.
165321	6-1-1986	Do.	An extended nippress for paper making machinery.
165328	7-4-1986	Do.	Diak Screen or like shaft assemblies.
165373	3-5-1985	Do.	Longitudinal cutler apparatus for webs or paper and the like.
165466	3-2-1987	Do.	A valve for controlling both the flow of stream from a stream header and air from an air header in to a stream box of a web drying machine.
150432	24-8-1978	Bera Anstalt, Anafalt Mura, of Im Lett 26, Vadus, Principality of Licehfensten.	Apparatus for the production of carbon black.
161558	13-10-1983	Bernard Zimmern of Vantage Point Condominium, 6, New Street, East Norwalk, CT, 06855, U.S.A.	An economiser device for a refrigerating machine a heat pump or the like.
163048	25-3-1985	Bernard Zimmern of Vantage Point Condominium, 6, New Street, East Norwalk, CT, 06855, U.S.A.	A positive displacement screw machine.
152423	23-5-1979	British Railways Board, Euston House, 24, Evershot, St. P.O. Box 100, London, NW11D2, England.	Apparatus for relevelling railway track.
155876	11-6-1982	Carclo Engineering Group Plc. Acre Street, Lindley, Huddersfield, West Yorkshire, England.	A card-clothing assembly and a method of producing a card-clothing assembly.

1	2	3	4
155182	22-12-1980	Carrier Corporation, Carrier Tower, P.O. Box 4800, Syracuse, New York 13221, U.S.A.	Shaft seal and fluid flow control device for use with a rotary machine.
154140	9-1-1980	Cavalletto S.R.L. of Via Bonaldo Stringher, 27, 00198, Rome, Italy.	Apparatus for unloading dry loads from ship
154221	21-8-1981	Centre De, Recherches Metallurgiques-centrum voor, Research in de metallurgie. 47 rue Montoyer, 1040, Brussels, Belgium.	Method of manufacturing steel reinforcements for concrete having improved properties.
159742	18-8-1983	The Charles strak Draper Laboratory Inc. of 555, Tehnology Square, Cambridge, Massachusette, 02139, U.S.A.	System for controlling the position of a strip of material with respect to a linear movable seam joining device.
150509	23-6-1978	Chem Rex. Inc.	Method and apparatus for coating the inner surface of a pipe.
156557	20-5-1982	Clayton Dewandre Co. Ltd., P.O. Box 9 Titanic Works, Lincoln, LNS 7 JL, U.K.	An improved reciprocating exhauster driven by diesel engine.
144816	12-2-1976	Clupak incorporated, of 530 Fifth Avenue, New York, State of New York-10036, U.S.A.	High bagasse Content news print paper and method form king the same.
154675	29-11-1980	Compagnie Financiere Des Cardans, A French. Body Corporate, of 133/137 Boulevard National France.	A coupling.
159691	24-11-1983	Conti Romano of 37, Via Pier Della Francesca, Prato, Italy.	A postale module.
147193	21-3-1977	Coppervision Inc. 2801, Orchard Parkway, San Jose, California 96134, U.S.A.	A mold constructed of thermoplastic material and a process for producing contact lenses.
152345	17-3-1980	CPC International Inc., International Plaza, Englewood Cliffs, New Jersey 07632, USA.	Improvement in Fluidized bed apparatus.
154260	17-10-1981	Craelius AB, Box 20513, S-16120, Bhomma, Sweden.	Device for disengaging agrappling means from a core barrel.
159737	15-7-1983	DALLCHI ENGINEERING CO. of 917, Koda-Cho, Kawashima-CHO, HASHIMA-GUN, GIFU-KEN, 483, JAPAN.	Squeeze pump.
149659	21-3-1978	Dainichi-Nippon Cables Ltd. of No. 8 Nishino-cho, Higashmukaijima, Amagasaki-shi, Hyogo, Japan.	A curing apparatus for the production of shaped articles of cross-linked polymeric material.
144742	21-7-1976	Davidson & Co. Ltd., Bridge End, Delfast, Northenn, Ireland.	Rotary regenerative preheater.
149228	12-1-1979	Davy International Aktiengesellschaft, Borsigallee, 1-7, D-6000 Frankfurt/Main 60, West Germany.	Shaft furnace for gasifying fine grained fuels in a ffuidised bed.
149503	21-3-1978	Davy-Loewy Limited, Prince of wales Road, Sheffield 59 4EX, Yorkshire, England.	Manipulator for supporting and manipulating workpiece.
162815	8-5-1985	Development Finance Corporation of Development, Finance Centre Corner Grey and Featherstone streets, Wellington.	Improvements in or relating to cyclic shear energy absorbers.
164096	10-5-1985	Do.	A cyclic shear energy absorber.
156673	9-11-1982	Dobson Park Industries, PLC, Dobson Park House cohoick, Industrial Estate Colwick Nottingham NG4 2BX, England.	Self advancing Roof supports.
157987	2-9-1983	Dobson Park Industries Plc. Dobson Park House, Colwick Industrial Estate, Nottingham. England.	Mine roof supports.

1	2	3	4
144841	31-8-1976	Dorr-Oliver Incorporated, of 77 Havemeyer Lane, Stamford, Connecticut, U.S.A.	Method of fleridized incineration of organic waste material using high space rate.
148535	24-6-1977	Dorr-Oliver incorporated, of 77 Havemeyer Lane Stamford, Connecticut, U.S.A.	A square type settling tank having skimmer.
149416	14-7-1977	Dorr-oliver Incorporated.	Pressure relief device for use in combination with the rotor of a nozzle type centrifugal machine.
155727	9-6-1976	Do.	A method for the treatment of sewage screenings.
155822	8-9-1976	Do.	Fluid bed reactor having pier supported refractory construction element.
156435	27-9-1976	Do.	Rotary rake structure for sedimentation tank having compound bottom slopes.
144112	10-2-1977	Dr. C. Otto & Comp. GmbH. Christstrasse 9, 4630 Bochum, West Germany.	Device for discharging dusty gases resulting from the pushing of cooking ovens.
146160	15-3-1977	Do.	Apparatus for cleaning the doors of cooking ovens.
148622	20-4-1978	Do.	A method for taking in and taking away gases leaking during coking and a device therefor.
148626	3-4-1978	Do.	Means for supporting the battery decking of underjet coke ovens.
152170	30-5-1981	Dr. C. Orro & Comp. of christstrasse 9, 4630, Bochum, West Germany.	Closing and opening device for use in coke ovens.
152515	7-12-1979	Do.	Vertical chamber for the continuous dry quenching of coke.
152680	2-6-1980	Do.	A method of renewing the brick work of coke ovens.
152766	31-10-1980	Do.	Coke car for coke ovens.
153268	2-6-1980	Do.	A coke oven battery.
153277	4-12-1980	Do.	Door extractor for the closures of horizontal coke ovens.
153338	2-6-1980	Do.	Extraction of gases evolved in the charging of coke ovens.
153339	24-11-1980	Do.	Coke oven battery adapted to be regeneratively heated by lean gas or rich gas at choice.
153570	25-2-1980	Dr. C. OHO & Comp. GmbH.	Nozzle provided with several outlet apertures for Coke ovens.
155623	12-2-1981	Do.	Apparatus for dry cooling of hot raw coke.
156936	24-12-1982	Do.	Heating system for the regenerative heating of a coke oven battery having twin heating flues.
158200	31-12-1983	Dr. C. OHO & Comp. GmbH. Postfach 101850, D-4630, Bochum 1, West Germany.	Coke oven door.
158142	15-2-1983	Do.	A temperature measuring means for coke oven chambers walls.
158919	19-12-1983	Do.	Device for levelling the coal charged into the coking chamber of a coke oven.

1	2	3	4
155608	1-10-1981	Dresser U.K. Ltd., 197 Knights bridge, London SW 7 1 RJ, England.	A method and apparatus for treating a polluted gas with a liquid.
159436	14-9-1983	Eagleair Inc. 1150, Mauch Chunk Road, Bethlehem, Pennsylvania 18018, United States.	Burner register assembly.
163528	5-7-1985	Eduard Baltensperger, of Elchstrasse 176, Bruttern, Switzerland.	A couplable and uncouplable load carrying thrust unit.
158165	19-2-1983	E Fonseca, of 11, Hungerford Street, Calcutta-700 017, India.	Assembly of scations, panels or any other pretabricated items and that the said esmend ponsications.
161834	21-9-1984	E-I Du Pont De, Nemours & Company.	Constant flowrate dual unit pump.
162407	20-5-1985	Do.	An improved coupled process of preparing drow interlaced polyster yarns.
148137	15-4-1976	Electronique Marcel Dassault, 55 Quai Carnot 922/4, Saint, cloud, France.	Apparatus for guiding a rotating moving body.
159671	2-2-1984	Erema Engineering Recycling Maschinen, Anlagen Ges, GES m.b. Hl of Freindort, Unterfeldstr, 3, A-4052, Ansteldcn, Austria.	A device for processing thermoplastic synthetic plastics material.
147887	23-11-1977	Esenwerk-Gesellschaft, Maximilinshtte mbH. 8458, Sulzbach-Rosenberg, West Germany.	A method of and Apparatus for constructing refractory brick linings an layer plates of vessels for areating and in particular refining metal melts.
157721	20-6-1983	Etablissements morel Al of Favieres 28170, Chateauneur En Thymerais, France.	A sleeve for protecting cable splices.
163710	15-5-1986	Do.	A protecting sleeve and a method for protecting cable splices.
162692	28-8-1984	FIRMA CARL STILL,	Process and apparatus for the production of briquetting material for hot briquetting.
150675	16-1-1979	Flogates Ltd., of Sandiran House, Beauchiet, Shettield S7 2RA, England.	Method and apparatus for the making of a metal casting.
152973	28-5-1980	Flowcon Oy, of Palnontie 25, 37630, Valkearoski 3, Finland.	A binder (Cement) and process for producing the same.
162741	5-2-1984	Fujikura Ltd., of No. 5-1 kiba, 1-chome, Kohotoh-Ku, Tokyo, Japan.	Self bonding enameled wire and hermetic compressar meter using tho same.
147650	15-2-1977	Gas Services Offshore Ltd.,	Normally closed gas exhaust valve and diving gas recovery system incorporating the same.
151668	8-3-1979	Gebruder Adams Armaturen N. Apparate G.m.b.H. & Co. D-4630, Bochum, Postfach 1001, OS, West Germany.	Kg. Improved disc valve.
159401	20-3-1984	Hackforth GmbH & Co., Kg. Heerstrasse 66, 4690, Herne, 2, West Germany.	A re;ilient shaft coupling.
153289	29-12-1980	Hamon-sobelco, Societe Anonyme. 50-58, Rue Capouillet, 1050 Bruxelles, Belgium.	A corrugated sintering sheet for a furnishing device.
159094	3-9-1983	Dr. Hans-George, Boehm, of Kellegrundway 13, 6242, Kronberg/Taunus, West Germany.	Steam Pressure cooker.
155732	17-11-1976	HARSCO CORPORATION, Harrisburg, Pennsylvania, U.S.A.	Cryogenic storage, container.
155745	17-11-1976	Do.	Double walled container for storing perishable materials at cryogenic temperatures and method for the manufacture thereof.

1	2	3	4
160461	8-5-1984	Heinz Kaiser Ag.,	Tool part in combination with a connecting shaft of a machine tool.
150031	19-5-1978	Henred Fruehauf, Trailers (Pty) Ltd., Private Baag, 5, Bergvlei, Transvaal, 20121, South Africa.	An improved freight carrier.
150983	11-7-1978	Hans. Ulrich, Klingenberg, 3274, St. Niklaus bei, Merzligen, Canton of Berne, Switzerland.	Watchcase.
154469	1-10-1980	Harlacher AG. Gartenstrasse 7. 8902, Urdorf, Switzerland.	Apparatus for coating a flat printing screen on one or both sides with a photosensitive emulsion.
156495	9-2-1982	Harold A. McMaster, 707 Riversaide Drive, Woodville, Ohio, 43469, USA.	Glass sheet roller conveyor furnace including gas jet pump heating.
160208	16-4-1984	Heinz Kaiser AG. Glattalstrasse 837, 8153, Rumlang, Switzerland.	Boring tool.
157316	23-10-1982	Hendrikus Van Berk, H. Govertkade 3, 2628, EA Delft, the Netherlands.	Apparatus for suctioning sub. merged bottom material.
155162	16-10-1980	Henred Fruehauf Trailers (Pty.) Ltd., Private Baag, 5 Bergvlevel, Trainsvaal 20121, South Africa.	An improved folding freight carrier.
154180	19-5-1980	Do.	An improved freight carrier.
160856	9-3-1984	Hoerbiger Ventilwerke, Akt. of 23, Braunhubergasse, A-1110, Vienna, Austria.	Improvement in a lifting device for the value plates of compressor valves.
148755	1-3-1978	HOESCH AT.	Spring strip for an elastic rail spike.
152567	26-9-1980	Do.	Resillent rail fastening device for concrete sleepers.
160537	30-11-1983	Do.	Rail track whose width is adjustable by a predetermined guage.
161990	7-11-1985	Do.	Under floor wheel set barring machine for retreading of rim circumferences of rairead wheel sets.
162376	2-4-1985	Do.	Centre free large rolling bearing.
162387	16-9-1985	Do.	Track spike with a single or double shaft.
163302	2-3-1985	Do.	Concrete crosstie with recesses.
163768	20-3-1986	HOESCH MASCHINENFABRIK DEUTSCHLAND.	Under floor wheel set turning machine for reprofiling wheel tyre contours of railway wheelsets.
156406	7-8-1982	Honda Giken Kogyo Kabushiki Kaisha, 8-GO, 27, -ban, Jingumae, 6-chome, Shibuya-ku, Tokyo, Japan.	Acceterator pump actuating device for a carburetor.
158979	15-1-1983	Honda Giken Kogyo, Kabushiki Kaisha, No. 27-8, 6-Chome, Jingumae, Shibuya-ku, Tokyo, Japan.	Gang head for a replaceable gang head machine tool.
161497	7-7-1984	Hughes Aircraft Co.,	A two axis optical intertial reference apparatus for provlding a stabilised optical reference.
162443	23-1-1985	Hughes Aircraft Co.	Optical coupling system for the transmission of Radiant energy to or from an optical wave guide over a spherical angle greater than a hemisphere.
162953	3-1-1984	Hugehes Aircraft Co.,	Apparatus for enhancing image resolutions.
162997	8-4-1985	Do.	Thermally actuated safety device for a pressure vessel or presserized gas generator, such as rovet motor case.

1	2	3	4
156234	13-11-1981	Hylsa S.A. of Apdo. Postal 996, Monterey, N.L. Mexico.	A rotary valve adapted to be used in regulating the gravity flow of a granular material.
157762	29-3-1982	Do.	Improved apparatus for breaking up agglomerated particulate matter.
150689	28-2-1979	ICI Australia Ltd., 1, Nicholson Street, Melbourne, Victoria, Australia.	A fuse device.
154651	31-5-1980	Instyut Obrobki Plastycznej, U1, Zamenhofa 2/4, Poznam, Poland.	Forging device.
152965	16-3-1979	Instytut Obrobki, Plastycznej, ut. Zamenhofa 2/4, Poznan, Poland.	Method and apparatus for forging crank throws.
152035	18-9-1980	Kabelmetal Electro GmbH, Kabukamp 20, 3000, Hannover 1, Federal Republic of Germany.	Process for the manufacture of shrink articles such as shrink tubes sleeves caps.
160720	31-12-1984	Kabushiki Kaisha Itoh, Seitetsusho, 14-10, Hirai, 5-chome, Edogana-ku, Tokyo, Japan.	Apparatus for soaking steel pieces.
158983	17-2-1983	Korting Hannover AG, Badenstedter Str. 56, 3000, Hannover 91, West Germany.	Burner for pulverized, gaseous and/or liquid fuels.
152908	25-2-1980	Lothar Teske, Hegelstr. 15, 5000 Koln 90, West Germany.	A bunker clearance vehicle.
153930	2-5-1980	M.A.N. Gutehoffnungshutte GmbH, Bahnhofstrasse 66, 4200, Oberhaussen 11, F.R.G.	Rotary machines.
154116	20-6-1981	Do.	A compressor especially a single stage or multistage screw compressor with means for regulating the quantity of flow of the compressed medium.
159054	25-6-1983	Do.	A method for the production of synthesis gas and a reactor for carrying out the method.
159529	21-2-1984	Do.	Bucket-wheel excavator.
160118	12-3-1984	Do.	En-masse conveyor for vertical or steep delivery of bulk material.
154449	26-11-1981	Maplan Maschinen-Und, TECH. etc. A-1010, Wien, Schellinggasse 1, Austria.	Double-worm extrusion press.
161917	7-2-1986	Metallurgical & Engineering Consultants (India), Ltd., Ranchi-834002, Bihar, India.	Blast furnace cast house, runner system.
157158	15-11-1982	Molins Plc. 2 Evelyn Street, London SE8, 5DH, England.	Feeding particulate material especially tobacco.
150764	4-12-1978	Motor Industries Co. Ltd. Hosur Road, Adugodi, Bangalore-560030.	Particularly for varying the unstant of spark ignition or instant of fuel injection in internal combustion engines.
148980	3-1-1978	Nadella, 133-137, Boulevard National 92505, Rueil-Malmaison, France.	Handle bar steering head set assembly for bicycles and the like.
154609	24-11-1980	Neotronics Limited, Parsonage Road, Takeley, Bishops stratford, Hertfordshire, England.	Apparatus for measuring the degree of efficiency of combustion appliances.
161254	16-1-1984	Nippon clean Engine Research Instituted, 205-3, Kitayasuemachi, Kanazawa-shi, Ishikawa-Ken, Japan.	A two-stroke internal combustion engine.
160231	21-7-1982	Nippon kokun kabushiki-kaisha, 1-2, Marunouchi-1-chome, Chiyoda-ku, Tokyo, Japan.	A horizontal or a non-steeply inclined rotary furnace for smelting reduction or refining of metal alloys.

1	2	3	4
154759	6-10-1980	Otto-Simon Carves, Ltd., Europa House, Bird Hall Lane, Cheadle Heath, Stockport, Chestire, England.	Method and apparatus for producing coke.
159547	21-12-1982	Otto-Simon Carves Ltd., Do.	A larry car for transporting a charge of pre-heated coal.
150619	20-3-1979	P.W.T. Plastic world Technology Ltd., 9495 Triesen, Liechtenstein.	A method and apparatus for the continuous extrusion and blowing of thin films of plastic material in particular rigid PVC.
161256	26-5-1984	Rimrock Corporation 1700 Rimrock Road, Columbus, U.S.A.	Automatic lading apparatus.
161346	28-5-1984	Rimrock Corporation. Do.	Control system for automatic ladling apparatus.
157702	12-10-1982	Risvin-Richerche E, Svilupp, Via Di Vigorso 3, 40054, Budrio, Bologna, Italy.	Apparatus for the handling of products or articles for example sweets and cigarettes by operative means carried in continuous movement.
155189	16-2-1981	Robert Cassou Rue clemenceau, 61300, L' Aigle, France.	Apparatus for transferring animal reproduction elements especially animal embryos and semen.
157775	28-7-1982	Roberto Perlini, Carso Venczia 93, 37047, San Bonifacio, Verona, Italy.	Device for straight travelling stabilization and change of attitude on pre-determined paths for vehicle axles.
161345	15-12-1983	ROCAMAT, rue Bellini, 92800 Puteaux, France.	Device for cutting blocks of materials like granite, marble stone.
159237	3-1-1983	Ronald A. McMaster, 420 Water Street, Woodville, Ohio 43469, USA.	An improved apparatus for handling heated glass sheets.
161407	21-3-1985	Roy William Buckland, 35, Pennycroft, Pixton way, Forestdale crydoncro 9LL, England.	Improvements in shuttlecockes.
149349	23-6-1979	Ryosuke Hosoi, 5-9-10, Kami-Minami, Hiranoku, Osaka, Japan.	An improved drill for high feed reaming operations.
148394	25-1-1977	Saunders Valve Co. Ltd., Cwmbran, Gwent NP4, 3xx, Wales.	Method of forming an injection moulded functional lining on a valve body.
157461	6-9-1982	Societe Francaise, De Munitions, 11 Impasse Goudelet 75011, Paris, France.	A cartridge for hand and shoulder weapons.
145575	28-7-1976	Societe Generrale De construction Electric Ques Et. Mechaniques Alsthom SA, 38, avenue kleber, 75784, Paris, cedex 16, France.	Method and device for separating and compacting flocculated solids in a fluid sludge.
147175	6-9-1976	Societe Nationale Des, Poudres Et Explosifs 12, Quai Henri IV, 75181 Paris, Cedex 04, France.	Improvements in or relating to a screw extruder having a screw casing connected to a bed.
145684	15-6-1976	Spie-Batignolles, Tour Anjou 33, Cuei, Pauteaus, Hauts-de-sein, France & Electricite De France, 2, Rue Louis Murat, Paris 8 eme, France.	A device for protecting a structure against effects of high horizontal dynamic stresses.
158384	5-7-1985	Mr. Tarun Gupta, C/o Coal Inspection Services, P.O. Dhansar, Dist-Dhanbad, Bihar, India.	An improved tank for the recovery of fine coal ash and other minerals from a water slurry of same.
149199	1-11-1977	Tex Innovation AB, P.O. Box 5006, S-42105 Vastra, Prolunda 5, Sweden.	Method of producing a conditioned fibrous materials with a reduced tendency to wirkel vacuum packaging and if desired vacuum packing the so obtained materials.
148113	28-10-1977	Tomoe Technical Research Company, 2-91-1, Honjyo-Naka, Higashi-Osaka-shi, Osaka, Japan.	Butterfly valve.

1	2	3	4
148474	29-3-1977	Unelec S.A. 38 Avenue cleber 75784 Paris, Cedex 16, France.	An interchargeable three phase tripping device for a three pole circuit breaker.
156802	26-3-1982	Unisearch Limited, 221-227 Anac Parade, Kensington, New South Wales, Australia, 2203,	Improvement in wind driven machine.
159095	21-9-1983	Xerox corporation, Xerox Square, Rochester, New York, USA.	Copy finishing apparatus.
160322	1-8-1983	Yair Daar, Moshav Galia, Israel and Shimon Yahav, 61 Remez street, Rehovot, Israel.	Electrically powered depilatory device.
148086	16-3-1978	Youhgflex S.A. 1, Rue Fries, 1701 Fribourg, Switzerland.	A cushion support structure for incorporating in a seat.
148408	21-2-1978	Youngflex S.A. 1, Rue Fries, 1701 Fribourg, Switzerland.	Cushion support element.

COMMERCIAL WORKING OF PATENTED INVENTIONS

ELECT. ENGG. LIST NO. IV

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1989 generally on account of want of request for licences to work the patented invention, persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1	2	3	4
161036	28-7-1983	Adrian March Ltd., 7 Argyle close, Whithall, Bordon, Hampshire GU35, 9PU, England.	Position sensor.
158166	9-7-1982	AMBAC INDUSTRIES, of 5200 Auto Club Drive, INC. dealborn, Michigan 48126, U.S.A.	A signal generator for use with a combustion ignition engine.
157216	14-6-1979	Amerace corporation, 555 Fifth Avenue, New York, New York-10017, USA.	A process for producing micro porous polymeric products.
162001	13-7-1983	Asahi Glass Company, of 1-2, Marunovchi, 2 ,Chome, Chiyoda ku Tokyo, Japan.	Process for producing a cathode having high durability and low hydrogen over voltage.
161949	18-6-1984	Asahi Kasei Kogyo, Kabushiki Kaisaa, of 2-6, Dojimahama, 1, chome, kitaku, osaka-shi, Osaka, Japan.	Process for separating borate ions from Aqueous solution by absorption.
162109	29-10-1983	Asea-Jumet, Societe Anonyme, Zoning Industrial, B 6040, Charleroi-Jumet, Belgium.	A method of manufacturing an autoregerable capacitor and a capacitor manufactured by that method.
159609	7-1-1982	CEM-COMPAGNIC, Electro Mecanique, of 12, rue portalis, F-75008 Paris, France.	Sliding field inductor with oriented flux for agitation rollers in the continous casting of slabs.
159238	4-1-1983	CENTRE STEPHANOIS DE, RECHERCHES MECANIQUES Hydro-Mecanique Et F Rottement, of Rue Beroit Fourneyron, Andrezieum Boutheon, hoine, France.	Electrical safety power supply arrangement for luminescent discharge.
161476	5-9-1983	CHUBU ELECTRIC POWER COMP. OF 1, Higashishincho Higashi, ku, Nagoya-shi, Aichi-Kan, Japan.	Insulator for lighting arrestor.

1	2	3	4
152705	16-6-1980	Contraves Italiana s.pa. Via Affile, 102-00131, Rome, Italy.	An integrated radar antenna array.
161791	9-12-1983	Dextec Metallurigical Pty. Ltd. 124 Walker Street, North Sydney, New South Wales 2060, Australia.	Electrolytic cell for recovery of metals from mineral ore of concentrates.
143183	12-7-1976	Dr. C. Otto & Comp. Gmbh, 463, Bochum, West Germany.	Battery of coke ovens with regenerative heat exchange.
163480	22-7-1983	E-I-Du Pont De, Nemours & Company.	Process for preparing a static resistant terephthale polyester fibre.
162262	3-1-1984	Energy Conversion Devices of 1675, West Maple Road Troy, Michigan 48084, U.S.A.	Electronic matrix arrays & method for making the same.
162750	3-1-1984	Energy conversion Devices.	A flat panel display.
163310	31-1-1984	Do.	Multilayered electronic memory arrays for use in data storage apparatus.
156735	20-4-1983	Evans Adlard & Co., Ltd., Postlip Mills, Winchcombe, Cheltenham, Gloucestershire GL 54 5BB, England.	Glass fibre paper separator for electrochemical cells and electro-chemical cell comprising the same.
158642	22-4-1983	Fisher Controls International, Inc, 7711 Bonhamme, clayton, Missouri 63105, U.S.A.	System for controlling the mechanical position of a controlled device.
163440	27-12-1985	General Electric Company ,of 1 River Road, Schenectady 5, New York, U.S.A.	Insulated armature coil for dynamoelectric machine.
164057	14-8-1985	Geostar Corporation of 1001, 22nd Street, N.N. Suite 840, Washington D.C. 20037, U.S.A.	Position determination and message transfer system employing satellites and stored terrain map.
154152	30-1-1981	Herzl Laor, 8 Pines St. Rahovot, Israel.	Communications exchange.
150739	13-12-1978	Holec Systemen & Componenten B.V. of Tuindorpstraat 61, 75555 CS Hengelo Ov. The Netherlands.	Three phase vacuum switch or the like for interrupting an inductive load in a three phase high voltage network.
162453	21-1-1985	Hughes Aircraft Co.	Non volatile semi condictor memory unit.
162858	18-4-1985	Hughes Airraft Co.	Method for insupsulating and impregnating article such as electrical components.
160983	15-1-1983	La Telemecanique Electrique, 33 Bis Et 33 Ter Avenue Du, Marechal-Joffre, 92002, Nanterre, Cedex, France.	An electro-magnet equipped with a moving system including a permanent magnet and designed for monostable operation.
153086	19-9-1980	Magnesium Elekron, Ltd., Lumn's Lane, Clifton, Junction Swinton, Manchester, England.	An electroic primary cell.
147467	5-10-1976	Maschinenfabrik Reinhausen Gebruder, Scheubeck GmbH & Co. KG. 8, Flakenstoinstasse, 8400, Regensburg, FRG.	An on-load tap-changer.
146792	6-10-1976	Siemens-Albis, Aktiengelleschaft, Albisriederstrasse. Zurich, Switzerland.	245/8047, Arrangements for correcting deviations from the true bearing caused by reflecting surfaces in target tracking radar installations.
155849	25-1-1982	Societe Nationale Industrielle Acrosphatiale, 37, Boulevard de Montmorency, 75016, Paris, France.	Acrial simulator for ground illumination by means of electromagnetic pulse adapted for determination of the dielectric constant and conductivity of a selected ground.

1	2	3	4
146566	12-12-1977	Union Carbide India, Ltd., 1, Middleton Street, Calcutta-700 071, West Bengal, India.	Dry battery operated lighting means which automatically come into operation when the mains power is cut off.
153608	16-10-1980	Do.	Improved push button switch.
154805	25-3-1983	Do.	Dry cell torch with adjustable focussing head.
154976	1-3-1983	Do.	Improved water proof flashlight.
157812	19-5-1983	Do.	Improvements in or relating to stock batteries.
149030	24-2-1979	Do.	An improved electric flashlight.
148981	24-4-1978	Ushio, Enki Kabushiki Kaisha, 6-1, Ole-machi, 2-chome, Asahi-Tokai Building, 19-floor, chiyoda-ku, Tokyo, Japan.	Rare gas discharge lamp.
148982	24-4-1978	Do.	Discharge lamp.

CHEM. ENGG. LIST NO. IV

COMMERCIALLY WORKING OF PATENTED INVENTIONS

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Patent No.	Date of Patent	Name & Address of the Patentees	Title of the Invention
1	2	3	4
164100	2-9-1986	Adolf WYLER Oldenaller 17, 1081 HJ Amsterdam, The Netherlands. (2) Herbert J. WAGNER, 25 Redbrook, Great Neck N.Y. 11024, U.S.A.	Process for producing a thermoplastic leather materials.
161044	21-10-1983	AE & CE Ltd. of 16th Floor, Office Tower, Johanesburgh. Transvaal. Republic of south Africa.	Amethod of making an explosive in the form of amemulsion and an apparatus for preparing the method.
162356	22-1-1985	Do.	An explosive composition and a method of its preparation.
163091	9-3-1983	APACE RESEARCH LTD. 130, Dowling Street Dungog, New South Wales. Australia.	Emulsions of liquid hydrocarbons with water and/or alcohols and method of producing the same.
156765	14-9-1982	Bata Limited. 59. Wymford Drive Toronto Ontario Canada M3C 1k3.	Fast-curing foamable composition based on ethylene terpolymers.
153197	27-11-1979	Bau-Und Forschungsges. Thermoform AG. Ryf 50. Murten/Fribourg. Switzerland.	Pulping of lignocellulose with aqueous methanol/catalyst mixture.
146532	31-1-1977	BCIRA Formerly known as British Cast Iron Research Association, Alvechurch. Birmingham B 48 QB, England.	Cast iron.

1	2	3	4
160994	14-6-1983	BETHLEHEM STEEL CORPORATION. of Bethlehem, Pennyylvania, 180 16, U.S.A.	A method for producing a metallic coating metallurgically bonded to a ferrous base.
147318	17-3-1975	THE BF GOODRICH COMPANY. of 277, Park Avenue, New York, New York 10017 U.S.A.	A process of making polymerization reaction vessel for eliminating the build up of polymers on the internal surfaces.
149350	17-4-1979	Do.	Suspension polymerisation process for producing polymers of vinyl and vinylidene halides and copolymers.
150326	22-5-1979	Do.	Process for coating polymerization reaction vessel using steam application.
150668	9-10-1979	Do.	Improvements in or relating to polymerization reactions and polymerization reaction vessel therefore.
151231	13-11-1978	Do.	Process for the polymerization of vinyl chloride.
151347	9-10-1979	Do.	A process for polymerization of manomer.
151750	7-4-1980	Do.	Coating polymerization reactors with the reaction products of thiodiphenols and a bleach.
151754	15-5-1981	Do.	Process for psoducing spherical and porous vinyl resin particles.
151926	31-12-1980	Do.	A process for producing polymers of vinyl and vinylidine halides and copolymers thereof.
151951	24-10-1980	Do.	Improved method for the preparation of alumina supported copper catalyst compositions for fluid bed hydrocarbon oryhydro chlorination.
152000	5-9-1980	Do.	Process for making polymerization reaction vessel.
152034	5-9-1980	Do.	A process for making polymerization reaction vessel.
152167	28-10-1980	Do.	Suspension polymerization process for making vinyl resins for use in plastisol.
152264	21-1-1981	Do.	Emulsion polymerization process with saw Emulsifier concentration.
152347	21-3-1980	Do.	Improved process for recovery of vinyl chloride monomers from vent gas stream in polyvinyl chloride plant.
152463	15-5-1981	Do.	Process for preparing spherical and porous vinyl resin particles.
152829	27-5-1981	Do.	A process for producing postchlorinated polymers having increased thermal stability.
153485	13-2-1981	Do	Process for recovering vinyl polymers from emulsion polymerization latties.
153528	1-10-1980	Do.	A process of prducing polymers of vinyl and vinylidenecholides and copolymers thereof.

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154586	8-4-1982	THE BE GOODRICH COMPANY of 277, Park Avenue, New York, New York 10017, U.S.A.	process for polymerization of vinyl monomers with improved kinetic rate profile.
154795	13-8-1981	Do	Process for producing chlorinated PVC resin.
155496	16-7-1972	Do.	A process for making internally coated reaction vessel for use in suspension polymerization of vinyl monomers.
155610	17-2-1982	Do.	A process for eliminating the build up of polymers on the internal surfaces of a polymerization vessel.
156236	22-3-1982	Do.	Improved process for the suspension polymerization of vinyl monomers.
156496	8-6-1982	Do.	A method and apparatus for obtaining extruded cellular polymeric resin product.
156604	6-9-1982	Do.	Apparatus and method for extruding cellular resin products.
156862	25-9-1982	Do.	Process for making vinyl dispersion copolymer through monomer metering.
156889	20-2-1982	Do.	A process for preparing chlorinated poly (vinyl chloride).
157077	25-9-1982	Do.	A process for making a foam product from chlorinated polyviny chloride.
161001	13-8-1984	Do.	Process for producing vaccines and composition against Lapatitis intections.
156434	19-4-1983	BRICHINA S.P.A. an Italian Company of Via del Vecchio, Politecnico, 7, Milan Italy.	Process for preparing 2, 3, Dihydro-2, 2 Dimethylbenzo furm-7-oh.
158381	4-2-1984	Do.	Process for the production of benzofuran derivatives.
162228	24-8-1984	BRITISH GAS CROP. of River mill House 152 Grosvenor Rd. London SEIV 3JV, England	A process for the production of methane containinggas.
146975	29-10-1977	THE BRITISH PETROLEUM COMPANY LTD. of Britannic House, Moor Lane London EC 2 7 98U, England.	Process for the production of ammonia.
163229	28-3-1985	CENTRAL DIERGENEES KUNDIG INSTITUTE of Edelhertweg 15, 8219 PH LELYSTAD, The Netherlands.	A process for preparing marek's disease virus done suitable for use in a vaccine.
162708	13-3-1985	CENTRALNY OSRODEK BADAWC of Ul Manywilska, 42B, Warszawa, Poland.	Process of producing cellular concrete with industrial waste as aggregate.
160803	4-1-1983	CENTRE Stephanois De Recherches Mechniques Hydro-Mecanique ET Frottement of Rue Benoit Fourneynon Andnezieum Bautheon, Loine, France.	Method of depositing a layer of extremely hard chromium a substrates.
162513	29-3-1984	CENTRO SVILUPPO MATERIALI of Via DJ CASTEL ROMANO 00129 ROME ITALY.	A process for preparation of stable coal-water mixtures
162879	10-12-1984	ChemteLinz AG now, Chemte Holding Akttengesellschaft. St. Peter-Stra Be 25, A-4021, Linz.	Process for the preparation of glyoxals & alkylglyaxals.
151346	23-8-1978	CHLORINEENGINEERS CORPN LTD., of No. 2-5, Kasumigoseki, 3-chome, Chiyoda-ku, Tokyo, Japan.	Process for purifying aqueous solution of alkali metal halide for electrolysis.

1	2	3	4
155696	31-8-1981	CIBA-GEIGY AG. Klybeckstrasse 141-4002, Basle Switzerland.	Process for beaching textiles or removing stains from textiles.
157590	4-3-1982	Do.	An electrochemical process for the preparations of benzathrone.
161674	28-11-1983	Do.	Process for the preparation of bromoanthraquinones.
154764	15-10-1980	CIL INC. 630 Dorchester Blvd. West Montreal. Quebec, Canada.	Apparatus for treating waste mixed liquor and method for treatment of activated sludge waste.
163275	30-8-1983	CIL INC. a Canadian Company. of P.O. Box 200, Statlan, a north Wark, Ontario, Canada MZN. 6H2.	Water in oil emulsion explosive compositions.
154089	4-2-1981	CPC INTERNATIONAL INC. a Delaware Corporation located at International Plaze P. O. Box 8000, Englewood Cliffs, New Jersey 07632. U.S.A.	A method for the production of immotilized glucose isomerase.
155277	8-8-1980	DEGUSSA AG Frankfurt/Main 6450 Hanau 1, Postfach 1345 Federal Republic of Germany.	A process for manufacturing of corrosion resistant building materials.
155704	22-10-1982	Do.	A process for nitriding components of steel and iorn.
162212	21-4-1984	Do.	Process for the production of natural oxidic or silicaticfillers modified at the surface.
162947	16-5-1984	Do.	Vulcanizable halogen casutchowe composition & process for producing the same.
163594	22-2-1985	Do.	A process for the production of camomile extracts rich in flavones.
164015	28-6-1985	Do.	An improved process for the valcanization of halogen rubber.
164169	1 12-1985	Do.	A process to obtain commomile extracts form cammomile flowers.
152573	18-12-1980	Denki Kagaku Kogyo Kabushiki Kaisha, 4-1, Yuraku-cho, 1-thome, chiyoda-ku, Tokyo Japan.	Improvement in or relating to a method for production of carbon black.
153610	18-12-1980	Do.	Improved process for the production of carbon black.
162842	24-8-1983	DENNIS E.J. JOHNSON & SCOTT J. JOHNSON both of 125, Garfield Avenue, Aurora, Illinois 60506, U.S.A.	System of ionized oxygen allotrope gas water purification & apparatus.
164579	24-8-1983	Do.	A method of treating ambient air flow to from ionized oxygen allotrope for chemical free water purification process.
164580	24-8-1983	Do.	Apparatus for free water purification treatment.
144410	7-8-1976	DR. C. OTTO & COMP. GmbH, 463, Bochum West Germany.	A method for the production of coke using a battery of coke ovens with a regenerating change of draught.
155388	12-2-1981	Dr. C. Otto & Comp. GMBH of Christstrasse 9, 4630 Bochum, West Germany a German Company.	A process for preparing quenched coke from hot coke & for simultaneously producing water gas by using sensible heat of hot gas.
158981	15-2-1983	Do.	A method of obtaining an optimum yield of gas of optimal quality by gasification of high ash-content bituminous fuels in a gasifier.

1	2	3	4
162518	8-3-1985	D. SWAROVSKI & CO. Swarovskistrasse 36, A-6112, Wattons Austria.	A process for producing silane.
158564	16-6-1982	DULUX HOLDINGS LTD.	A process of preparing an aqueous dispersion of film forming polymer.
153701	22-4-1981	E.I Du Pont De Nemours & Company of Wilmington, Delaware, U.S.A.	An improved process for the continuous nitration of an aromatic compound.
155438	20-4-1982	Do.	Improved process for the continuous production of alkali metal hydroxide by electrolysis & an electrolitic cell therefore.
163524	30-4-1984	Do.	An improved contineous process for preparing crimped annealed polyested filaments.
163596	5-9-1985	Do.	Process for preparing a heat resistant sulfur modified polychloroprene copolymers.
164011	27-12-1984	Do.	Apparatus for producing melt spun synthetic organic polymer filaments.
164363	27-5-1985	Do	A filled hardenable resin composition.
164449	18-12-1985	Do.	Process for separating methyl isocyanate.
161914	18-12-1985	EURO-CELTIQUE SA	Method for producing 6-thioxanthing compounds.
162218	15-3-1985	Do.	A method of preparing a germicidal iodophor complex.
162797	29-10-1984	Do.	Process for preparing anti hypertensive composition.
157041	27-5-1983	F.C.N. s.r.l. of Via 5 Bosco %-Treviglio (Bergamo) Italy & ALPHATIME LTD. CO. INC. of St. Peter House, 119 High Street, Berkhamsted, Hertfordshire Great Britain.	Process for the preparation of an organic compound of selenium exhibiting antineoplastic activity.
156897	2-7-1983	F. Hoffman-La Roche & Co. AG. 124-184 Grenzacherstrasse, Basle Switzerland.	A process for the manufacture of 2-oxo-pyrrolidino derivatives.
153702	4-5-1981	GENERALE DES ENGRAIS S.A., of 47, Rue De Villiers 92527 Neuilly Sur Seine, France.	Continuous two stage process for the production of solid products in the form of granulated solid particles.
164571	18-11-1985	General Electric Company	Improved industrial gas turbine components.
164161	9-7-1985	Hans A Schaeffer of 14, Paliant Avenue New Jersey 07036 U.S.A.	A process for preparing a dental composition useful in combatting gum disease.
155165	18-3-1981	Hoechst Ag.	Process for preparing water soluble Azo compounds
157076	24-8-1982	Do	Process for preparing water soluble azo compounds.
160087	4-8-1983	Do	Process for the preparation of water soluble copper complex disazer compounds.
162064	20-1-1984	Do.	Process for the manufacture of chlorobenzesul foramides.
162383	23-7-1984	Do.	Process for the preparation of water-soluble disazo compounds.
162546	26-11-1984	Do	Process for the preparation of 5-hydroxyethyl sulfonyl-2-amino phenol and ethers thereof.

1	2	3	4
162547	21-2-1985	Hoechs. Ag.	Process for separating 6-hydroxy-2-napthoic acid form it's isomeric hydroxynaphthoic acids.
162758	29-10-1984	Do.	Process for the preparation ofB-sulfato ethylsulfonyl-o-amino phenols.
162967	2-5-1983	Do.	Process for preparation of water soluble disazo compounds.
163439	28-6-1985	Do.	Process for preparing low salt liquid aqueous preparations of fibre. reactive dyestuffs.
163479	31-7-1986	Do.	A process for the preparation of aromatic dialkylamines.
163701	19-11-1984	Do.	A liquid water containing dyeing preparation.
163797	15-7-1985	Do.	A process for preparing substituted phenyl hydroxythyl sulfones.
163999	25-3-1986	Do.	Process for the preparation of bisdjazonium salts of 4, 4-diamino 3, 3-dialkoxybiphenyls.
164188	5-11-1985	Do.	Process for the preparation of monocyclin bisoxethyl sulfonyl-anilines.
164220	30-6-1986	Do.	An improved single vessel process for preparing 2-acetamino naphthalene.
164505	17-7-1985	Do.	Process for the preparation of water soluble pyridone monazo compound as dyestuff.
156492	21-3-1983	Hoogovens Groep B.V. P.O. Box 10.000, 1970 CA, Ijmuidon The Netherlands.	Process for producing steel in a converter from Pig iron and ferrous scrap.
152747	1-4-1981	Huhtamaki Oy of Pansiontic 45-47, SF-20210 Turku 21 Finland.	Copper wire having corrosion-resistant care for intrauterine birth central devices and a method for manufacturing the same.
157551	23-2-1982	Hylsa S.A.	Method and apparatus for the reduction of metal ores.
159559	11-7-1983	Do.	Method of converting iron ore into molten iron.
160074	7-10-1983	IMI Titanium Ltd. P.O. Box 216, Witton, Biramingham B6 7BA, England.	Method of manufacturing a weldable alloy of titanium.
146351	7-5-1976	Imperial Metal Inds (Kynoch) Ltd. Kynoch works, Wiltown Birmingham 13 67 BA, England.	A method of manufacturing an alloy of titanium.
158383	13-6-1984	John Wyeth & Brother Limited Huntercombe Lane South Taplow Maiden Road SL 6 OPH, U.K.	A process for the preparation of an edible fat composition.
144675	15-12-1976	Kerr-Mc Gee Chemical Corporation Kerr-McGee Center, Oklahoma city Oklahoma 73125, U.S.A.	Improvement in benefication of ilmenite ore.
148346	7-12-1977	Mannesmann Demag AG. of 41-Duisburg 1, Wolfgag, Renter-Platz, Federal Republic of Germany.	Method of continuous smelting of ferro-chrome.
156965	26-2-1982	Otsuka Chemical Co. Ltd. No. 10. Bungomachi, Higashiku, Osaka, Japan.	A process for preparing S-methyl N-[N-methyl-N(N-disubstituted aminosulfenyl) carbomoyl)-oxy] this acetamidate derivative.

1	2	3	4
149751	10-21978	Phillips Petroleum Co. Bartlesville, State of Oklahoma, USA.	A process for preparing a passivating agent and the catalytic process using said passivating agent in presence of a cracking catalyst.
154133	30-8-1980	Rutgerswerke AG. Mainser Landstrasse 217, D-6000 Frankfurt /Main 1. Germany.	Process for the preparation of highly aromatic pitchlike hydrocarbons.
151254	21-12-1978	Sasol One (Proprietary) Ltd.,. Klaisie Havenga Road, Sasolburg, Orange free state, Republic of South Africa.	Process for coal liquefaction.
154169	13-8-1981	Scott Bader Co. Ltd. Williaston, Wellingborough, Northampton-shire NN 9 7 RL, England.	Anti-fouling coating compositions.
152503	8-7-1980	Sid Richardson Carbon & Gasoline Co. 31st Floor. Fort Worth National Bank Bldg. Fort Worth, Texas 76102. USA.	An improved carbon black producing apparatus and method.
153577	19-12-1980	Sid Richardson Carbon & Gasoline Co.	Improved process of producing carbon black of carcass grade.
159723	4-10-1983	SKW Trastberg AG. Dr. Albert-Frank-Strasse 32. D-8223 Trostberg Federal Republic of Germany.	Nitrogen fertilizer with a content nitrification inhibitor.
155885	25-11-1981	Union Carbide Corpn.	Linear low density ethylene hydrocarbon copolymer containing composition for extrusion coating.
144019	30-8-1975	United States Borax & Chemical Corpn. 3075 Wilshire Boulevard, Los Angeles, California. USA.	A process for the fluid bed dehydration of borax.
145818	16-8-1976	United Technologies, Corporation, Financial Plazo. Hartford, Connecticut 06101. USA.	Process for preparing a thermally protected super alloy structure.
155500	2-11-1981	Wacker-Chemie GmbH Prinzregenten str. 22, 8000. Munchen 22. West Germany.	Process for the manufacture of pure storage stable acetoacetamide.

RENEWAL FEES PAID

149244 149682 150127 150359 150670 150795 150864
150996 151307 151318 151909 153092 153339 153436
154977 155604 155629 156101 156188 156437 156743
156915 157175 157206 157207 157511 157760 157903
157924 158299 158416 158545 158582 158987 159172
159208 159385 159517 159527 159641 159774 159799
160426 160594 160793 160927 161345 161578 161965
161967 161994 162058 162127 162193 162238 162309
162320 162397 162433 162479 162480 162606 162688
162689 162693 162729 162764 162765 162768 162773
162774 162775 162780 162833 162834 162835 162836
162971 162983 162988 163008 163010 163011 163027
163097 163129 163134 163140 163143 163148 163156
163204 163296 163312 163327 163302 163343 163427
163428 163502 163580 163603 163615 163802 163889
163923 164141 164682 164694 164695 164737 165046
165079 165080 165236 165240 165606 165662 165743
165815 165876 165965 165969 166011 166022 166023
166024 166026 166035 166172 166217 166218 166279
166280 166293 166295 166399 166501 166502 166522
166523 166538 166643 166818 166922 166923 166951
167163 167264 167315 167327 167345 167376 167403
167412 167416 167417 167418 167432 167467 167468
167638 167730 167773.

CESSATION OF PATENTS

151860 161115 161930 162010 163896 164594 165060
165511 165637.

CESSATION OF PATENTS

154322 154323 154325 154327 154328 154329 154330
154333 154334 154337 154338 154340 154341 154342
154345 154346 154347 154348 154351 154353 154354
154355 154356 154358 154359 154360 154365 154366
154369 154372 154375 154377 154387 154391 154393
154395 154398 154400 154402 154403 154404 154406
154409 154411 154414 154419 154423 154424 154427
154428 154430 154433.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 151747 dated the 31st December 1980 made by Indian Oxygen Limited on the 3rd December, 1990 and notified in the Gazette of India Part III, Secton 2 dated the 30th March, 1991, has been allowed and the said Patent restored.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 161518 dated the 22nd February 1984 made by The Babcock & Wilcox Company on the 4th February 1991 and notified in the Gazette of India Part III, Section 2 dated the 10th August, 1991, has been allowed and the said Patent restored.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No 163281. Victor Products, of Ram Baug, S. V. Road, Malad (W), Bombay-400 064, Maharashtra, India, Indian Partnership firm. "Hinges". 4th June, 1991.

Class 1. No. 163364. Jag Mohan Gupta, sole Proprietor, Wintone Electronicks, a sole-Proprietorship firm, WZ-170-B, Khampur, West Patel Nagar, New Delhi-110 008, Union Territory of Delhi, Indian National, India of the above address. "Stereo Deck". 28th June, 1991.

Class 1. No. 163448. Dr. Belde Yadagiri, Indian trading as Sri Vishnu Electronics, a Sole Proprietorship concern of 4-3-225, Giriraj Lane, Bank Street, Hyderabad-500 195, Andhra Pradesh State, India. "Televisioin Antenna". 25th July, 1991.

Class 1. No. 163511. Bala Kishan Javar. Gunduvari Street, Rajahmundry, Andhra Pradesh (India) an Indian. "Singasan". 12th August, 1991.

Class 1. No. 163584. Wellman Wacoma Limited an Indian Company of "Tata Centre", Ground Floor, 43, Chowringhee Road, Calcutta-700 071, West Bengal, India. "Contra flow Separator for Coal". 10th September, 1991.

Class 1. No. 163626. Jamilur Rehman of address, Proprietor of M. S. Metal Works, an Indian Proprietory concern, 6889/4-6891, Gali Main Sahibwali, Beri Wala Bagh, Pul Bagh Delhi-110 006, India, an Indian National of above address. "Button". 27th September, 1991.

Class 1. No. 163648. Vinayak Joglekar 63/3, 'Swapna Rekha' Karve Road, Pune-411 004. Maharashtra State, India, A Subject of the Republic of India. "Tava". 7th October, 1991.

Class 3. No. 163252. Wimco Pen Company, 11, Mehta Industrial Estate 1st floor, I. B. Patel Road, Goregaon (East), Bombay-63, Maharashtra, India, an Indian Partnership firm. "Water Bottle". 16th May, 1991.

Class 3. No. 163277. Vineet Prakash Jain, 18, New Mohan Purii Meerut-250 002 (U. P.) India, an Indian National of above address. "Nipple". 30th May, 1991.

Class 3. No. 163297. C. A. Ford pty. Ltd. a company incorporated under the laws of the State of Victoria, of 19 Clarice Road, Box Hill, Victoria 3128-Australia. "Furniture". 6th June, 1991.

Class 3. Nos. 163301 & 163302. L. V. Sham Cottage Industries, 2292/2, Inside Gate Hakiman, Amritsar-143 001, Punjab State, India. "Torch" 10th June, 1991.

Class 3. No. 163308. Axis Appliances, Sector-4, Kasauli Road, Parwanoo, Himachal Pradesh, India, An Indian Partnership Concern. "Vaccum Cleaner". 12th June, 1991.

Class 3. No. 163309. Larsen & Toubro Limited, of L & T House, Ballard Estate, Bombay-400 038. Maharashtra, India. "An AC operated control contractor". 12th June, 1991.

Class 3. No. 163362. L. V. Sham Cottage Industries, 2292/2, Inside Gate Hakiman, Amritsar-143 001, Punjab State, India, an Indian Partnership Concern. "Reflector of Torch". 27th June, 1991.

Class 3. No. 163391. Nalin Kantilal Shah nad Vijay Kantilal Shah trading under the name and Style of Intouch Plastics, a Partnership firm registered under the Indian Partnership Act, having office at 20, Nand Deep Industrial Estate, Kondivita Lane, Off Andheri-Kurla, Andheri (East), Bombay-400 059, in the State of Maharashtra, within the Union of India, who are Indians by Nationality. "Protractor". 10th July, 1991.

Class 3. Nos. 163392 & 163393. Nalin Kantilal Shah and Vijay Kantilal Shah trading under the name and style of Intouch Plastics, a Partnership firm registered under the Indian Partnership Act, having office at 20, Nand Deep Industrial Estate, Kondivita Lane, Off Andheri-Kurla, Andheri (East), Bombay-400 059, in the State of Maharashtra, within the Union of India, who are Indians by Nationality. "Angle". 10th July 1991.

Class 3. No. 163528. Amar Nath Bansal and Krishan Prasad Aggarwal, Indian Nationals, trading as : Mahalaxmi Toys, 30/44, Gali No. 9, Vishwas Nagar, Shahdara, Delhi-110 032, India. "Toy Gun". 20th August, 1991.

Class 3. No. 163600. Mapco Structural Foad Private Limited Registered under the Indian Companies (Act, 1956), having their Registered Office at 36-B, Raghava Ratna Towers, Chiragali Lane, Hyderabad-500 001, A. P., India, Indians. "Refrigerator Stand". 17th September, 1991.

Class 3. No. 163620. Anil Malhotra, son of late Prithvi Raj Malhotra, of 2/56, Roop Nagar, Delhi-110 007, Union Territory of Delhi, Indian National, India of the above address. "Hand Welding Shield". 26th September, 1991.

Class 10. No. 163401. ICT Industries, a Partnership firm registered under the Indian Partnership Act, having office at Swastik Industrial Compound, Chincholi Bunder Road, Malad (West), Bombay-400 064, in the State of Maharashtra, within the Union of India, who are Indians by Nationality of above address. "Footwear". 10th July, 1991.

Class 12. Nos. 163477 & 163478. Richie Rich Products, A-18, Ram House Middle Circle, Connaught Place, New Delhi-110 001, India and Indian Sole Proprietorship concern. "Wall Clock Toy made of fabrics". 30th July, 1991.

Class 12. No. 163621. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India and Indian sole Proprietorship concern. "Toy Duck Made of fabrics". 26th September, 1991.

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Nos. 157621, 157629, 157636	Class-3.
Nos. 157628, 157622	Class-4.

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R. A. ACHARYA
Controller General of Patents, Designs and Trade Marks

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